VDT7008 Combo DVR with 10.2 Inch LCD

8-Channel Digital Video Recorder

USER MANUAL

1. **Electrical Safety**
   All installation and operation should conform to your local electrical safety codes. We assume no liability or responsibility for any fires or electrical shock caused by improper handling or installation.

2. **Transportation Security**
   Avoid heavy stress, violent vibrations or contact with water during transportation, storage and installation of this system.

3. **Installation**
   Keep upright. Handle with care.
   Do not provide power to the DVR prior to completing installation.
   Do not place objects on the DVR.

4. **Qualified Service Technicians**
   Any examination and repair work should be done only be a qualified service engineer.
   We are not liable for any problems caused by unauthorized modifications or attempted repairs.

5. **Environment**
   This product works in a temperature range of 14°F to 131°F (-10°C to 55°C)
   This combo DVR should be installed in a cool, dry place away from direct sunlight and flammable or explosive substances, etc.

6. **Accessories**
   Make sure to only use accessories recommended by our company.
   Before installation, check the package to verify that all the components are included.
   Contact your local retailer ASAP if something is broken in your package.

CAUTION!
RISK OF ELECTRICAL SHOCK!

Thank You for Choosing our Product!

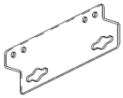
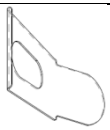
All of our products are backed by a conditional service warranty covering all hardware for 12 months from the date of purchase. Additionally, our products also come with a free exchange policy that covers all manufacturing defects for one month from the date of purchase. Permanent upgrading service is provided for the software.

Liability Exclusions:

Any product malfunction or abnormalities in operation or damage caused by the following reasons are not within the free service scope of our company:

(1) Equipment damage caused by improper operation.
(2) Improper equipment operation environment and conditions (e.g., improper power, extreme environmental temperatures, humidity, lightning and sudden surges of electricity).
(3) Damage caused by acts of nature (e.g., earthquake, fire, etc).
(4) Equipment damage caused by the maintenance of personnel not authorized by Our company.
(5) Product sold over 12 months ago.

Packing List:

Item	Picture	Amount
Device		**1**
Holder		**2**
Holder		**1**

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1. INTRODUCTION

1.1 DVR Introduction

This combo DVR uses high performance video processing chips and an embedded Linux system. It utilizes many advanced technologies, such as standard H.264 with low bit rate, triple stream and so on. This DVR system supports mouse controlled navigation and can also be accessed through IE browser with full remote control, mobile viewing by cell phones, etc. This is an advanced technology combo DVR system which utilizes cutting edge technology functions without compromising the stability of the system. It is ideally suited for use in such industries as banking, telecommunication, transportation, factories, warehouses, residences etc.

1.2 Main Features

COMPRESSION FORMAT

- Standard H.264 compression with low bit rate and high image quality

LIVE SURVEILLANCE

- Supports channel security by hiding live display
- Displays the local record state and basic information
- Supports full control with USB mouse

RECORDING MEDIA

- Supports one 2.5 inch SATA HDD to record for a long time periods.

BACKUP

- Supports backing up to USB 2.0 devices
- Supports saving recorded files with AVI format to a remote computer through internet

RECORDING & PLAYBACK

- Record modes: Manual, Schedule, Motion detection and Sensor alarm recording
- Supports recycle after HDD is full
- Resolution, frame rate and picture quality are adjustable
- 128MB for every video file packaging
- 4 audio channels available
- Three record search modes: time search, event search and image search
- Supports 8 screen playback simultaneously

- Supports deleting and locking the recorded files one by one
- Supports remote playback in Network Client through LAN or internet

ALARM

- 1 channel alarm output and 4 channel alarm input available
- Supports scheduling for motion detection and sensor alarm
- Supports pre-recording and post recording
- Supports linked channels recording once motion or alarm is triggered on designated channel
- Supports linked PTZ preset, auto cruise and track of the corresponding channel

PTZ CONTROL

- Supports multiple PTZ protocols (PelcoP, PelcoD, LILIN, MINKING, NEON, STAR, VIDO, DSCP, VISCA, N-control and RANGE)
- Supports 128 PTZ presets and 8 auto cruise tracks
- Supports simulative cruise
- Supports remote PTZ control through internet

SECURITY

- Customize user rights: log search, system setup, two way audio, file management, disk management, remote login, live view, manual record, playback, PTZ control and remote live view
- Supports 1 administrator and 63 users.
- Supports event log recording and checking, events unlimited

NETWORK

- Supports TCP/IP, DHCP, PPPoE, DDNS protocols
- Supports IE browser to do remote viewing
- Supports a maximum of 10 connections simultaneously
- Supports triple sub stream.
- Supports picture snap and color adjustment in remote live view
- Supports remote time and event search, and channel playback with picture snap
- Supports remote PTZ control with preset and auto cruise
- Supports remote full menu setup, changing all the DVR parameters remotely
- Supports mobile surveillance by smart phones, Win Mobile Pro, Symbian, and iPhones, iPads, Android, and Blackberry on 3G networks
- Supports CMS to manage multiple devices on the interne

2. GETTING STARTED

- *Check the unit and the accessories immediately after opening your system.*
- *Please disconnect the power before connecting to other devices.*

2.1 Installing Hard Drive

- *This device supports one SATA hard drive up to 2TB.*
- *Calculate HDD capacity according to the recording settings. Please refer to "Appendix B Calculate Recording Capacity".*

Step 1: Unscrew and Open the HDD cover

Step 2: Place the HDD onto the bottom case as shown below.

Fig 2-1 Open the HDD cover

Fig 2-2 **Mount HDD**

Step 3: Mount the cover and screw it firmly.

2.2 Front Panel Instructions

An illustration of the Front Panel interface is shown as Fig 2-3:

Fig 2.3 Front Panel

Number	Name	Description
1	IR	Receive signal of remote controller
2	RECORD	Record Manually
3	MENU/+	Increase the value in setup/Enter menu in live view
4	BACKUP/-	Decrease the value in setup/Enter backup mode in live view
5	SEARCH	Enter into search mode
6	DIRECTION/ MULTI SCREEN	1.Change direction to select items 2. Change screen display mode from 1/4/9 channel
7	ENTER BUTTON	Confirm selection
8	PLAY	Enter into Play Interface
9	REW	Rewind Key
10	FF/PTZ	1.Fast Forward 2. Enter into PTZ interface
11	STOP/ESC	Quit play mode/Exit the current interface or status
12	POWER	LCD power switch

2.3 Side Panel Instructions

An illustration of the rear Panel interface is shown as Fig 2-4:

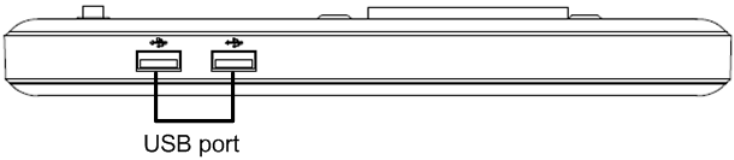


Fig 2-4 side panel

USB port: To connect external USB devices like USB flash, USB HDD for backup or update firmware

2.4 Rear Panel Instructions

An illustration of the rear Panel interface is shown as Fig 2-5:

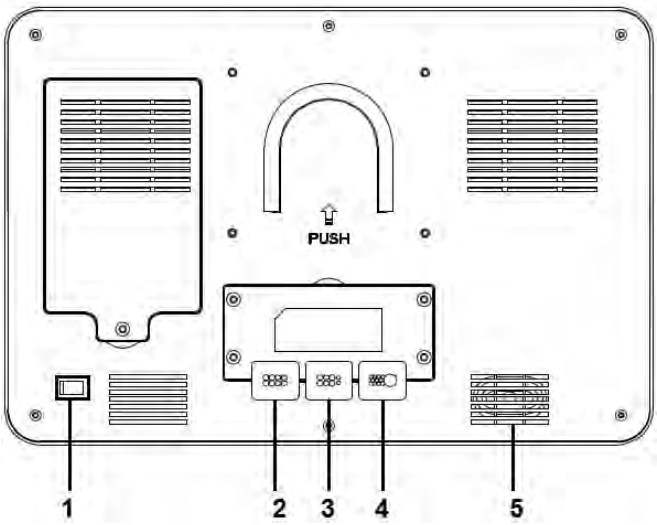
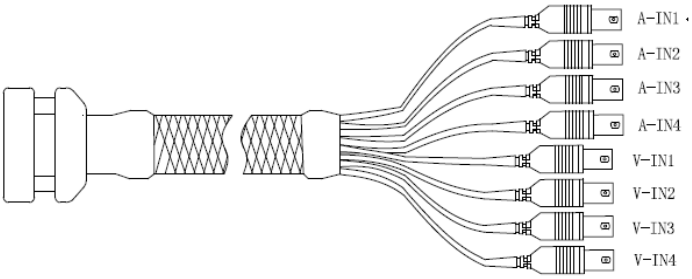


Fig 2-5 Rear Panel

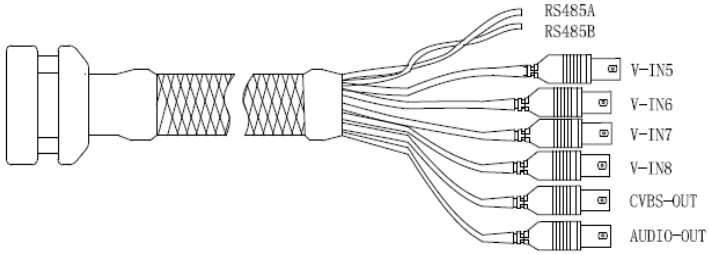
1 **power switch**

2



A-IN1: Audio input	V-IN1: Video input
A-IN2: Audio input	V-IN2: Video input
A-IN3: Audio input	V-IN3: Video input
A-IN4: Audio input	V-IN4: Video input

3



RS485A: connect to speed dome or keyboard TX+

RS485B: connect to speed dome or keyboard TX-

CVBS-OUT: CVBS video singal output

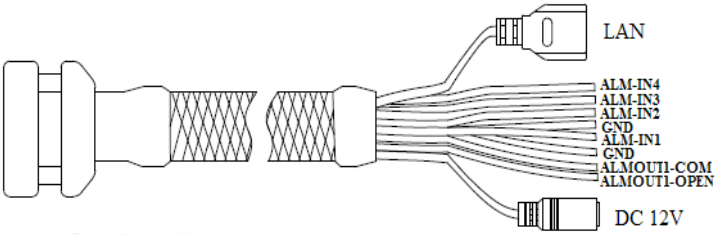
AUDIO OUT: connect sound box

V-IN5: Video input

V-IN6: Video input

V-IN8: Video input

4



LAN: network port

ALM-IN4: connnect to external sensor

ALM-IN3: connect to external sensor

ALM-IN2: connect to external sensor

GND: grounding

ALM-IN1: connect to external sensor

GND: grounding

ALM0UT1-COM/OPEN: 1-ch Alarm output

DC 12V : Power input

5 **Speaker**

2.5 Remote Control

The remote control uses two AAA size batteries. Instructions for operation are as follows:

Step 1: Open the cover of the Remote Control
Step 2: Place batteries making sure the poles are correct (+ and -)
Step 3: Replace the battery cover

If the remote does not work check the following:

1. Check the pole position of the batteries
2. Check the remaining charge in the batteries
3. Check to make sure the sensor on the DVR is clear
4. If it still doesn't work, contact your supplier for a replacement

Figure 2-6 below illustrates the Remote Control functions as follows:

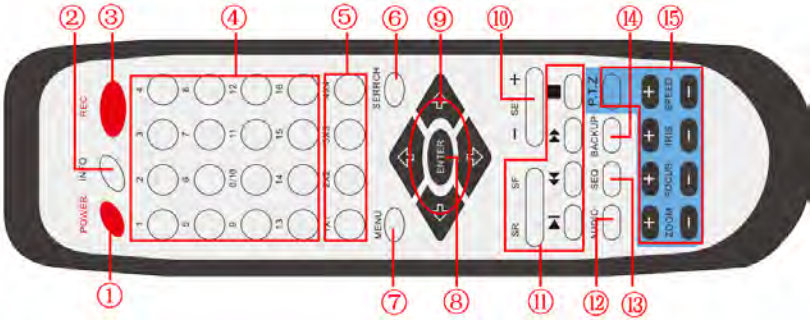


Fig 2-6 Remote Control

Number	Button	Description
1	Power	Soft switch off to stop firmware running. Use this prior to turning off the DVR.
2	Info	Get information about the DVR like firmware version, HDD information
3	REC	To record manually
4	Number buttons	Input numbers or choose camera
5	Multi screen button	To choose multi screen display mode
6	Search	To enter search mode
7	Menu	To enter menu
8	Enter	To confirm the choice or setup
9	Direction button	Move cursor in setup or move PTZ camera
10	+/-	To increase or decrease the value in setup
11	Playback	To control playback, Fast forward/ rewind/ stop/ single frame play
12	Audio	To enable audio output in live mode

13	**Dwell**	To enter auto dwell mode
14	**Backup**	To enter backup mode
15	**PTZ**	To control PTZ camera: Move camera/ZOOM/FOCUS/IRIS/SPEED control

Operation processes with remote controller to control multi-DVR

The device ID of the DVR is 0. When use of remote controller to control single DVR, it's not necessarily to reset the device ID, user can do operation directly; when control multiple DVR with remote controller, please refer to below steps:

Step1: Activate remote controller to control DVR: enable DVR: turn the IR sensor of the remote controller to the IR receiver that on the front panel, press the number key 8 twice, then input device ID (Range from: 0-65535; the default device ID is 0.) with other digital number: 0-9, after that, press ENTER button to confirm.

Step2: User can check the device ID by enter into System configuration→Basic configuration→device ID. User also can set other DVRs with the same device ID. For more convenient to operate, we don't recommend user to set the device ID too long.

Step3: Cancel controller to control DVR: turn the IR sensor of the remote controller to the IR receiver that on the front panel, press the number key 8 twice, then input the device ID that needs to be cancelled from controlling, press ENTER button to confirm. After that, the DVR will not be controlled by remote controller.

2.6 Control with Mouse

2.6.1 Connect Mouse

DVR supports USB mouse through the port on the side panel, please refer to Fig 2.4.

Notice*: If mouse is not detected or doesn't work, check below steps:*

1. Make sure the mouse plugs in the USB mouse port on the back of the DVR, not the front panel port.

2. Try a different mouse

2.6.2 Use Mouse

In Live:

Double-click left button on one camera to be full screen display. Double-click again to return to the previous screen display.

Click right button to show the control bar at the bottom of the screen as Fig 4-1 main menu toolbar

Click right mouse again to hide the control bar.

Fig 2-7 Numbers and Letters Input Window

In Setup:

Click left button to enter. Click right button to cancel setup, or return to the previous screen.

If you want to input values, move cursor to the blank and click. An input window will appear as shown in Fig 2-7. It supports numbers, letters and symbols.

Users can change some values by the wheel, such as time. Move cursor onto the value, and roll the wheel when the value blinks.

Also supports mouse drag. I.e. Set motion detection area: click customized, hold left button and drag to set motion detection area. Set schedule: hold left button and drag to set schedule time

In playback:

Click left button to choose the options. Click right button to return to live view.

In backup:

Click left button to choose the options. Click right button to return to previous picture.

In PTZ control:

Click left button to choose the buttons to control the PTZ. Click right button to return to live view.

Notice: ***Mouse is the default tool for all the operations below unless otherwise noted.***

3. BASIC FUNCTION

3.1 Power On/Off

Before you power on the unit, please make sure all the connections are good.

3.1.1 Power On

Step 1: Connect the power supply; switch on the power button near the power port on the rear panel
Step 2: Press the power button on the front panel to start the LCD screen.
Step 3: before start, a WIZZARD window will be pop-up and show some information about time zone，time setup network configuration, record configuration and disk management. User can setup here and refer to the concrete setup steps from the corresponding chapters. If users don't want to setup Wizard, please click Exit button to exit.
After the device powers on, if there is no menu or only displays live image, user can hold down ESC button to switch.

Notice: this unit can only display menu on VGA monitor or BNC monitor one at a time. If there is live image display without menu display, please check to see if other monitoring device has menu display first, or hold down ESC key to wait for login dialog box to appear.

3.1.2 Power Off

User can power off the device by using remote control, keyboard or mouse.

By Remote Control:

Step 1: Press Power button, the Shut down window will appear, click OK, the unit will power off after firmware is shut down.
Step 2: Disconnect the power.

By Keyboard and Mouse:

Step 1: Enter into Menu, then select “System Shut Down” icon, the Shut down window will appear
Step 2: Click OK, the unit will power off after firmware is shut down.
Step 3: Disconnect the power.

3.2 Login

User can login and logout of the DVR system. User cannot do any other operations except changing the multi-screen display once logout. Admin has full control over DVR.

Fig 3-1 Login

- **Notice: the default user name and password is “admin” and 123456”**
- **For information on how to change password, add or delete users please refer to Fig 4.7 User management configuration.**

3.3 Live Preview

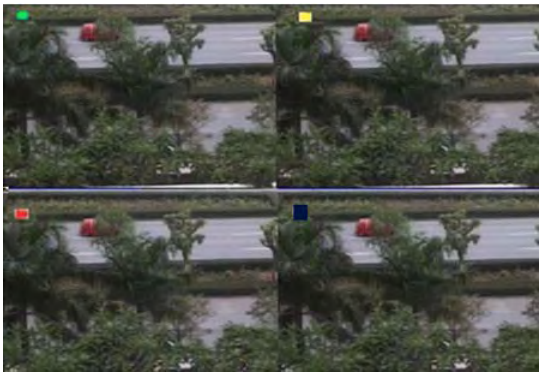


Fig 3-2 Live Preview Interface

The explanation of symbols in the live preview interface:

Symbol	Meaning	Symbol	Meaning
Green	Manual record	Red	Alarm recording
Yellow	Motion detection recording	Blue	Schedule record

3.4 Live Playback

Click the Play button to playback the record. Refer to Figure3-3. User can operate by clicking the buttons on the screen.

Fig 3-3 Live Playback

4. MAIN MENU SETUP GUIDE

Click right mouse or press ESC button on the front panel, the control bar will display on the bottom of the screen, refer to Fig 4-1:

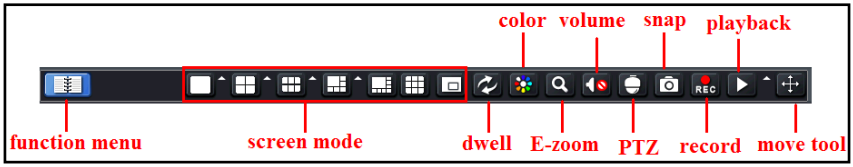


Fig 4-1 Main Menu Toolbar

Click the icon beside the screen display mode to display a channel select dialog. User can checkmark channels from 1-ch to 8-ch at random to display the live pictures. Then click button to confirm the setting.
6/8 channels can realize single channel big screen. Images can drag to any place to display in the live interface.

Click icon to set up picture-in-picture. Click the icon beside the playback icon to select the time to playback. For example, if 2 minutes is selected and then click playback button, it will start to playback from 2 minutes ago.

Dwell: Range of selecting to dwell is from single picture preview mode to 1/4/6/8 picture preview mode.
Color: Click this button to adjust the color of live pictures.
E-Zoom: Single channel large screen electronic amplification
Left click the channel which needs to amplify; Click the right mouse, select Zoom in button and then click the left mouse to amplify the image. Press left mouse to drug the cursor, user can view the image. Double-click the left mouse to exit. Click the right mouse to return to the main interface.
Volume: Enable sound.
PTZ: Click the PTZ button, user can control rotation position, speed of the dome and start track, auto scan or cruise in this interface. User can refer to PTZ configuration for more details.
Snap: click this button; user can snap the live pictures. These pictures will automatically be saved in the SATA disk.
Record: Click this button to start manual record
Playback: Click this button to playback the record files.

User can click button and drag it anywhere with the left mouse

Click the Menu button, the interface will pop-up as shown in Fig 4-2; press MENU button on the front panel or remote control will also display the main interface.

Fig 4-2 Main Menu

4.1 Basic Configuration

Basic configuration includes three sub menus: system, date& time and DST.

4.1.1 Setup

Step1: Enter into Setup configuration→basic configuration→setup; refer to Fig 4-3:

Fig 4-3 Basic Configuration

Step2: In this interface user can setup the device name, device ID, video format, max network users, video output, language and screensaver. The explanations for each display are shown below:

Device name: the name of the device. It will display on the client end or CMS and help user to recognize the device remotely.
Video format: two modes: PAL and NTSC. User can select the video format according to that of camera, in USA and Canada we use NTSC cameras.
Password Check: if you enable this option, user needs to input user name and password to do corresponding operations in system configuration.
Show time: display time in live view.
Show wizard: check this item, an opening wizard will display with time zone and time setup information
Max network users: set the maximum number of network connections
Video Output: the resolution of live display interface, options are: VGA800*600, VGA1024*768, VGA1280*1024 and CVBS
Note: Switching between VGA and CVBS will change the menu output mode, please connect to relevant monitor, VGA for VGA monitor, CVBS for TV or monitor that is connected using BNC adapter.
Language: setup the menu language.
Note: after changing the language and video output, the device needs to restart.
Logout After (Minutes): A user can setup the screen interval time (30s, 60s, 180s, 300s). If there is no any operation within the setting period, the device will auto logout and return to login interface.
No Image When Logout: If this item is selected, there will be no image showing when logout.

4.1.2 Time & Date

Step 1: Enter into system configuration→basic configuration→time & date; refer to Fig 4-4:

Step 2: Set the date format, time format, time zone in this interface; Checkmark “sync time with NTP server” to refresh NTP server date; user also can adjust system date manually

Fig 4-4 Basic Configuration-Time & Date

Step 3: Click “default” button to restore default settings; click “apply” button to save the settings; click “exit” button to exit current interface.

4.1.3 DST

Step1: Enter into system configuration→basic configuration→DST; refer to Fig 4-5:

Fig 4-5 Basic Configuration-DST

Step 2: In this interface, you can enable daylight saving time, time offset, mode, start & end month/week/date, etc.

Step 3: Click “default” button to restore default settings; click “apply” button to save the settings; click “exit” button to exit current interface.

4.2 Live Configuration

Live configuration includes four submenus: live, main monitor, spot and mask.

4.2.1 Live

In this interface, user can setup camera names, adjust colors: brightness, hue, saturation and contrast.

Step 1: Enter into system configuration→live configuration→live; refer to Fig 4-6:

Fig 4-6 Live Configuration→Live

Step 2: Checkmark camera name; click “setting” button, a window will pop-up shown as Fig 4-7:

Fig 4-7 Live-Color Adjustment

Step 3: In this interface, user can adjust brightness, hue, saturation and contrast in live view; click “default” button to restore default settings, click “OK” button to save the settings.

Step 4: User can setup all channels with same parameters, checkmark “all”, then do relevant setup.

Recording Status: After clicking to put a checkmark in this function, a little square icon will show on live preview interface when recording.

Step 5: Click “default” button to restore default settings; click “apply” button to save the settings; click “exit” button to exit current interface.

4.2.2 Main Monitor

Step 1: Enter into system configuration→live configuration→Main monitor; refer to Fig 4-8:

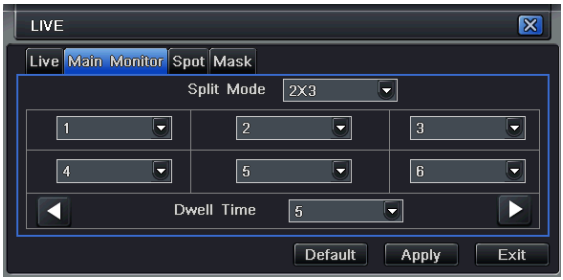


Fig 4-8 Live Configuration-Main Monitor

Step 2: Select split mode: 1×1, 2×2, 2×3, 3×3, 4×4 and channel

Step 3: Dwell time: the time interval for a certain picture display before switching to next picture display

Step 4: Select the split mode, then setup current picture group. Click button to setup the previous channel groups of pictures, click button to set latter channel groups of pictures.

Step 5: Click “default” button to restore default settings; click “apply” button to save the settings; click “exit” button to exit current interface.

NOTE: If you have dual monitors Host monitor needs to be main monitor.

4.2.3 Spot

Step 1: Enter into system configuration→live configuration→Spot; refer to Fig 4-9:

Fig 4-9 Live Configuration-Spot

Step 2: Select split mode: 1×1 and channel

Step 3: Dwell time: the time interval for a certain picture display before switching to the next picture display.

Step 4: Select the split mode, then setup current picture group. Click button to setup the previous channel groups of pictures, click button to set the latter channel groups of pictures.

Step 5: Click “default” button to restore default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

To activate this setting, go to the main camera screen and click on the Dwell icon (Fig 4-1). This will make the camera rotate based on the setting in Main Monitor.

4.2.4 Mask

User can setup private mask area on the live image picture, maximum of three areas.

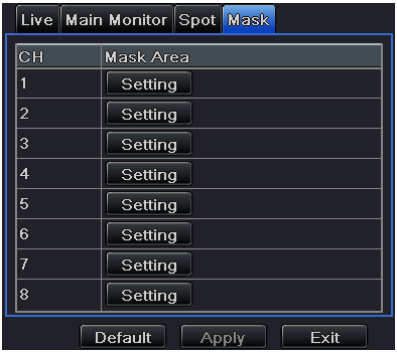


Fig 4-10 Live Configuration-Mask

Setup Mask Area: click Setting button, enter into live image and press left mouse button and drag mouse to set mask area, refer to picture below. Click Apply button to save the setting.

Delete Mask Area: select a certain mask area, click left mouse button to delete that mask area, click Apply button to save the setting.

Setup Mask Area

Live Image Mask Area

4.3 Record Configuration

Record configuration includes six sub menus: enable, record bit rate, time, recycle record, stamp and snap.

4.3.1 Enable

Step 1: Enter into system configuration→record configuration→enable; refer to Fig 4-11:

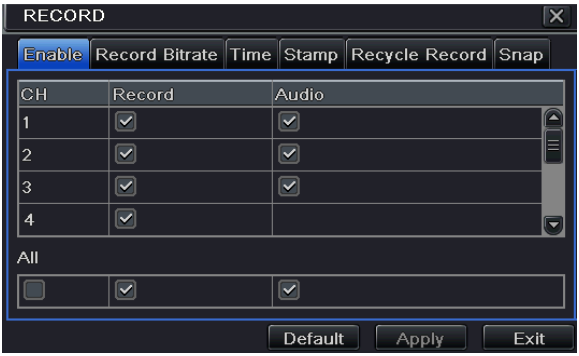


Fig 4-11 Record Configuration-Enable

Step 2: Checkmark record, audio and record time

Step 3: User can setup all channels with same parameters, checkmark “all”, then do relevant setup.

Step 4: Click “default” button to restore default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

4.3.2 Record stream

Step 1: Enter into system configuration→record configuration→record bit rate; refer to Fig 4-12:

Step 2: Setup rate, resolution, quality, encode and max bit stream

Step 3: User can setup all channels with same parameters, checkmark “All”, then to do relevant setup.

Step 4: Click “default” button to restore default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

Note: if you set a value that is higher than maximum supported by the device, the value will be adjusted automatically.

Fig 4-12 Record Configuration-Record Bit Rate

Parameter	Definition
Fps	Range from: 1-30（NTSC）1-25(PAL)
Resolution	Supports CIF, HD1 and D1
Quality	The quality of recorded images. The higher the value, the clearer the recorded image is. Six options: lowest, lower, low, medium, higher and highest.

4.3.3 Time

Step 1: Enter into system configuration→record configuration→ time; refer to Fig 4-13:

Fig 4-13 Record Configuration-Time

Pre-alarm record time: set the record time before event happen i.e. record time before motion detection or sensor alarm is triggered.

Post-alarm record: set the post recording time after the alarm is finished, five options: 10s, 15s, 20s, 30s and 60seconds.

Expire time: the hold time of saved records. When the set date has passed, the record files will be deleted automatically.

Step 2: User can setup all channels with same parameters, checkmark “all”, then to do relevant setup.

Step 3: Click “default” button to restore default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

4.3.4 Stamp

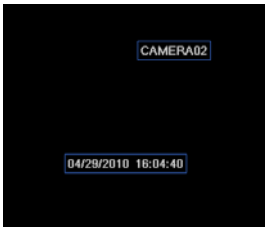
Stamp： User can display the channel name and time stamp on video.

Step 1: Enter into system configuration→ record configuration→ stamp; refer to Fig 4-14:

Fig 4-14 Record Configuration-Stamp

Step 2: Checkmark camera name, time stamp; click Set button, user can use cursor to drag the camera name and time stamp to random positions as shown below:

Before Drag



After Drag

Step 3: User can setup all channels with same parameters, checkmark “all”, then to do relevant setup.

Step 4: Click “default” button to restore default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

4.3.5 Recycle Record

Step 1: Enter into system configuration→record configuration→recycle record;

Step 2: Checkmark recycle record, the recycle record function will be enabled, it will overwrite the earlier recorded files and keep recoding when HDD is full; if not enables the DVR will stop recording when HDD is full.

Step 3: Click “default” button to restore default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

4.3.6 Snap

In this interface, User can set up Resolution, quality, snap interval, snap number.

4.4 Schedule Configuration

Schedule configuration includes three sub menus: schedule, motion and alarm.

4.4.1 Schedule

Step 1: Enter into system configuration→schedule configuration→schedule; refer to Fig 4-15:

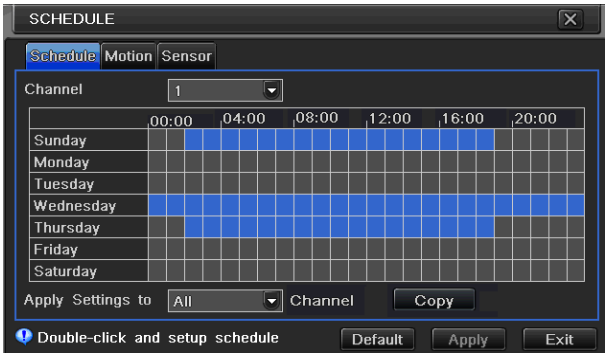


Fig 4-15 Schedule Configuration-Schedule

Step 2: Select channel, double-click and a dialog box will pop-up shown as Fig 4-16, user can edit week schedule:

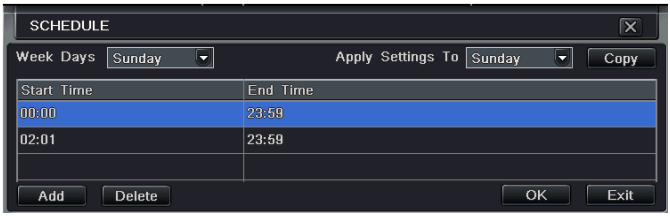


Fig 4-16 Schedule-Week Schedule

① Click “add” button to add a certain day schedule; click “delete” button to delete the selected schedule;
Copy: user can copy the specify schedule to other dates.
Click “OK” button to save the setting, click “Exit” button to exit current interface.

② User can apply the schedule setting of certain channel to other or all channels, just only select channel and click “Copy” button.

Step 3: Click “default” button to restore default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

4.4.2 Motion

Step 1: Enter into system configuration→schedule configuration→motion; refer to Fig 4-17:

Fig 4-17 Schedule Configuration-Motion

Step 2: The setup steps of motion are similar to schedule; user can refer to 4.4.1 Schedule for details.
Note: the default schedule of motion detection is all of the time, that is, the color of schedule interface is all blue.

4.4.3 Sensor

Step 1: Enter into system configuration→schedule configuration→alarm; refer to Fig 4-18:

Step 2: The setup steps of alarm are similar to schedule; user can refer to 4.4.1 Schedule for details.

Note: the default schedule of motion detection is all of the time, that is, the color of schedule interface is all blue.

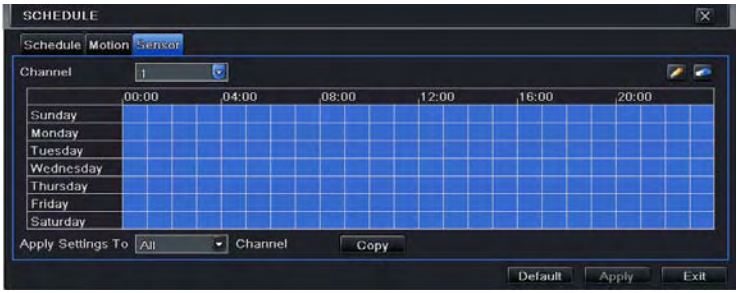


Fig 4-18 Schedule Configuration-Sensor

4.5 Alarm Configuration

Alarm configuration includes five sub menus: sensor, motion, video loss, other alarm and alarm out.

4.5.1 Sensor

To setup optional external motion sensors
Sensor includes three sub menus: basic, alarm handling and schedule.

① **Basic**

Step 1: Enter into system configuration→alarm configuration→sensor→basic; refer to Fig 4-19:

Step 2: Enable sensor alarm, set the alarm type according to triggered alarm type. Two options: NO (normally open) and NC (normally closed).

Step 3: User can setup all channels with same parameters, checkmark “all”, then to do relevant setup.

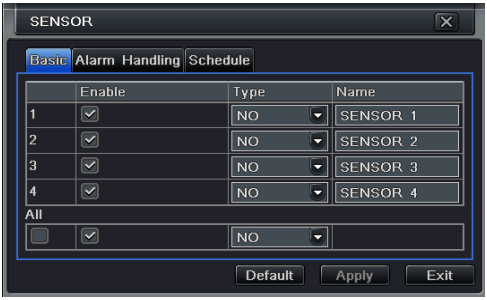


Fig 4-19 Alarm Configuration-Sensor Basic

Step 4: Click “default” button to restore default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

② Alarm Handling

Step 1: Enter into system configuration→alarm configuration→sensor→alarm handling; refer to Fig 4-20:

Fig 4-20 Alarm Configuration-Sensor-Alarm Handling

Step 2: Select hold time, click Trigger button, and a dialog box will pop-up shown as Fig 4-21:

Fig 4-21 Alarm Handling-Trigger

Step 3: Checkmark Buzzer, there will be triggered buzzer alarm out;

Full screen alarm: when triggered alarm, there will pop up an alarm full screen;

Email: click to put a checkmark in this function, when an alarm trigged, a notification email will be sent to user's designed email box including trigger events, time, snap pictures, device name, ID camera name etc.

To alarm out: checkmark the channel, there will be triggered alarm out on the designated channel. Click OK button to save the setting; click Exit button to exit the current interface.

Email: tick off this function. When an alarm trigged, a notification email will be sent to user's designed email box including trigger events, time, snap pictures, device name, ID camera name etc.

Snap: Select channels. When an alarm is trigged, the system will automatically save the captured pictures from the selected channel. If user tick off Email function, these pictures will also be sent to user's designed email box.

To record: checkmark recoding channels, it will record from the camera when alarm is triggered. Click OK button to save the setting; click Exit button to exit the current interface.

To P.T.Z: set linked preset and cruise for alarm. User can select any channel or multiple channels as linked channels. Click OK button to save the setting; click Exit button to exit the current interface.

Step 4: User can setup all channels with same parameters, checkmark "all", then to do relevant setup.

Step 5: Click "default" button to restore default setting; click "apply" button to save the setting; click "exit" button to exit current interface.

③ **Schedule**

Step 1: Enter into system configuration→alarm configuration→sensor→schedule; refer to Fig 4-22:

Step 2: The setup steps of sensor schedule are similar to schedule; user can refer to 4.4.1 Schedule for details.

Note: the default schedule of motion detection is all of the time, that is, the color of schedule interface is all blue.

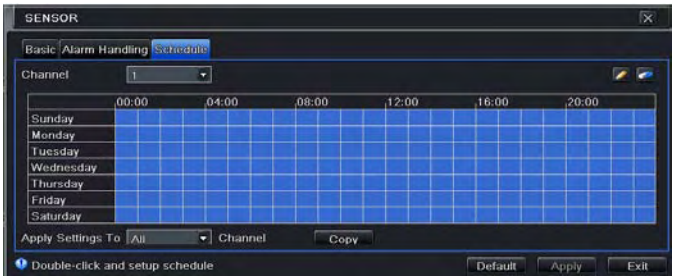


Fig 4-22 Sensor-Schedule

4.5.2 Motion

Motion includes two sub menus: motion and schedule.

① **Motion**

Step 1: Enter into Setup→alarm→motion; refer to Fig 4-23:

Fig 4-23 Alarm Configuration-Motion

Step 2: Enable motion alarm, set alarm hold time which means time interval between two consecutive motion events. If there is other motion detected during the interval period which is considered continuous movement; it will be included in the current file,

otherwise, it will be considered the start of a new motion file. Click Trigger button, a dialog box will pop-up:

Step 3: The setup steps of motion trigger are similar to alarm handling; user can refer to Chapter 4.5.1 Sensor →alarm handling for more details.

Step 4: Click Area button, a dialog box will pop-up shown as Fig 4-24:

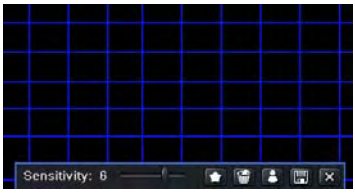
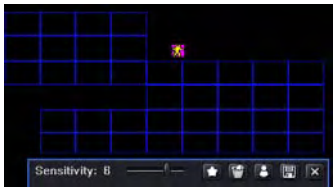


Fig 4-24 Motion-Area

Step 5: In the Area interface, user can drag slide bar to set the sensitivity value (1-8), the default value is 4. The higher the value the higher sensitivity you get. Since the sensitivity is influenced by color and time (day or night), user can adjust its value according to the practical conditions; click icon, set the whole area as detection area; click icon, the set detection area will be cleared; click icon, user can test whether the sensitivity value and motion area are suitable to current conditions （refer to following picture）; Click icon, to save the setting; click icon, exit current interface.



Note: when user drags mouse to set motion detection area, they have to click icon to clear current detection area first, and then set the area.

Step 6: User can setup all channels with same parameters, checkmark “all”, then to do relevant setup.

Step 7: Click “default” button to restore default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

② **Schedule**

Step 1: Enter into system configuration→alarm configuration→schedule; refer to Fig 4-25:

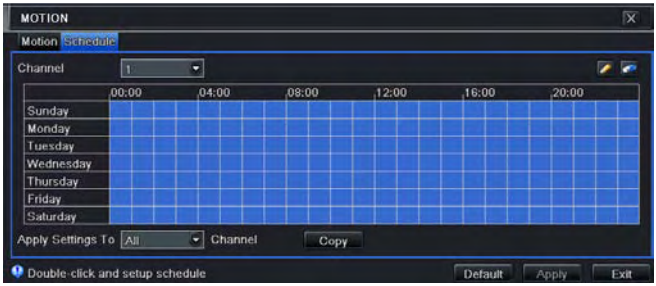


Fig 4-25 Alarm Configuration-Schedule

Step 2: The setup steps of alarm schedule are similar to schedule; user can refer to 4.4.1 Schedule for details.

4.5.3 Video Loss

Step 1: Enter into system configuration→alarm configuration→video loss; refer to Fig 4-26:

Fig 4-26 Alarm Configuration-Video Loss

Step 2: The setup steps of video loss trigger are familiar with alarm handling; user can refer to Chapter 4.5.1 Sensor →alarm handling for more details.

Step 3: User can setup all channels with same parameters, checkmark “all”, then to do relevant setup.

Step 4: Click “default” button to restore default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

4.5.4 Other Alarm

This tab gives a choice to configure alarm for Disk Full, IP Conflict, the Disconnect event, Disk Attenuation Warning or Disk Lost.

Fig 4-27 Other Alarm

Step1: enter into system configuration→other alarm; refer to Fig 4-27:

Step 2: Use the dropdown menu and select the event or the alarm.

Step 3: Check the required trigger options.

If the selected event is “Disk Full”, then use the drop down box for “Disk Shortage Alarm” to choose a threshold value for remaining HDD space. If the threshold value is reached, the system will trigger the Disk Full Alarm.

Step 4: click “default” button to restore the default settings; click “apply” button to save the setting; click “exit” button to exit current interface.

4.5.5 Alarm Out

Alarm out includes three sub menus: alarm out, schedule and buzzer

① **Alarm out**

Step 1: Enter into system configuration→alarm out; refer to Fig 4-28:

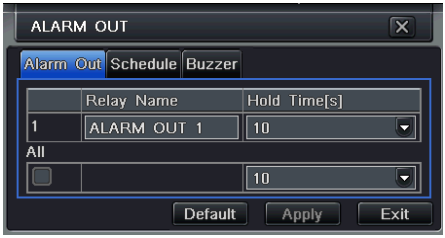


Fig 4-28 System Configuration-Alarm Out

Step 2: In this interface, set relay alarm out name, select hold time which means the interval time between the two consecutive alarms.

Step 3: User can setup all channels with same parameters, checkmark “all”, then to do relevant setup.
Step 4: Click “default” button to restore default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

② **Schedule**

Step 1: Enter into system configuration→schedule;

Step 2: The setup steps of alarm out schedule are similar to schedule; user can refer to 4.4.1 Schedule for details.

Note: the default schedule of motion detection is all of the time, that is, the color of schedule interface is all blue.

③ **Buzzer**

Step 1: Enter into system configuration→buzzer;

Step 2: Checkmark Buzzer, set buzzer alarm hold time

4.6 Network Configuration

Network configuration includes five submenus: network and sub stream, Email, server and other settings.

4.6.1 Network

Step 1: Enter into system configuration→network configuration→network; refer to Fig 4-29:

HTTP port: the default value is 80. If the value changed, user needs to add the port number when typing IP address in IE address blank .i.e. set HTTP port to 82, IP address: http://192.168.0.25, user needs to input that address: http://192.168.0.25:82 into IE browser.
Server port: communication port

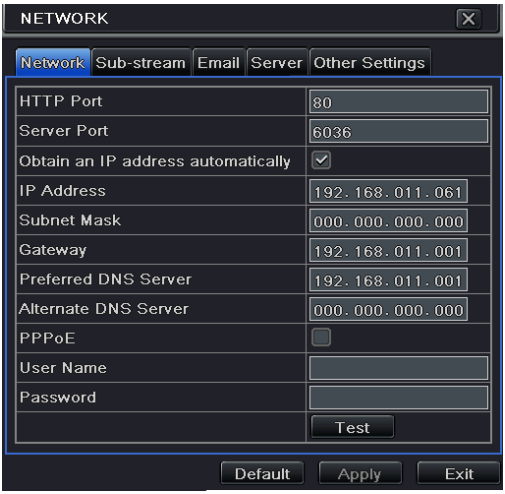


Fig 4-29 Network Configuration-Network

Step2: Tick off "Obtain IP address automatically", the device will distribute IP address, subnet mask, gateway IP and DDNS service;

Step3: enable PPPOE, user can directly connect the DVR to internet via ADSL, then input the user name and password; click TEST button to test the effectively of relevant information.

Parameter	Meaning
HTTP port	The port number of accessing IE browser. The default port is 80
Server port	The port number of data. The default port is 6036
Static IP	
IP address	The IP address of the server
Subnet mask	The subnet mask of the server
Gateway	The gateway of the server
DDNS server	The address of DDNS server
PPPoE	
User name	User name of broad band dial-up
Password	Password of broad band dial-up

4.6.2 Sub stream

Step1: enter into system configuration→network configuration→sub stream; refer to Fig 4-30:

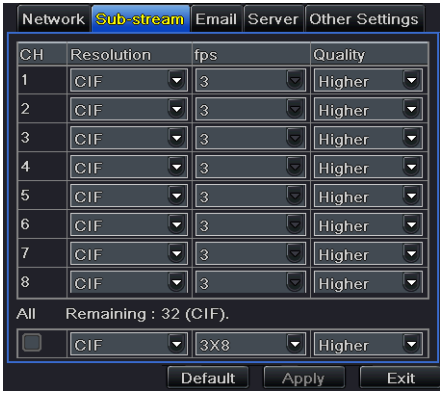


Fig 4-30 network configuration-sub stream

Parameter	Meaning
FPS	Range from: 1-25
Resolution	Support CIF
Quality	The higher the value is, the clearer the record image. Six options: lowest, lower, low, medium, higher and highest.

Step2: select fps, resolution, quality, encode and max bit rate

Step3: user can setup all channels with same parameters, tick off “all”, then to do relevant setup.

Step4: click “default” button to resort default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

Note: After selecting Resolution and Fps, the rest fps will be shown.

4.6.3 Email

Step1: enter into system configuration→network configuration→email; refer to Fig 4-31:

SMTP Server/Port: the name and port number of SMTP server.

Click to put a checkmark in “This server requires a secure connection (SSL)”; user can setup mail servers (such as Gmail) according to actual needs,

Send address/password: sender's email address/password
Receive address: receiver's email address. Here user can enter at least three mail addresses.
Click TEST button to test the validity of the mailbox.
Attaching image amount: user can attach up to three images at one time.
Snap Time Interval(s): User can select snap time interval.

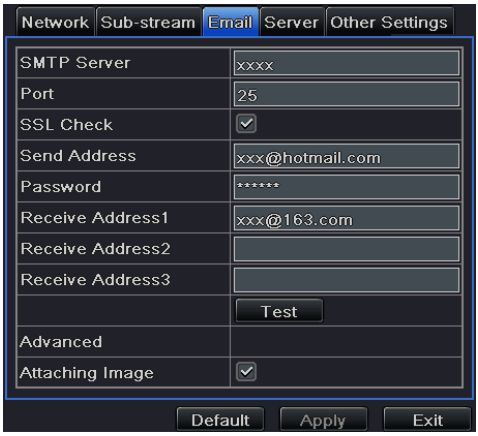


Fig 4-31 network configuration-email

4.6.4 Server

This function is mainly used for connecting ECMS. The user needs to enable the active report first in the ECMS when adding a new device. Then enter into the server interface and enable it. Input the IP address and port of the transfer media server of ECMS. The default server port is 2009. If it is modified, please enter into the transfer media interface to check. After the user enables the active report, the ECMS system will auto allot a Device ID. The user needs to check this reported device ID in the ECMS

Fig 4-32 network configuration-server

4.6.5 Other settings

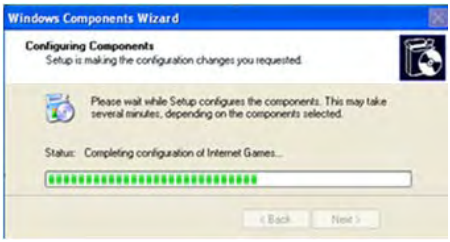
Step1: If you enable DDNS server: you need to input user name, password and host domain name of the registered website, click TEST to test the effectiveness of relevant information.

Fig 4-33 network configuration-other settings

Step 2: click “default” button to restore default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

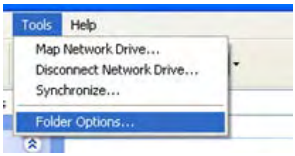
Note: The domain name server that is selected by the user is a banding domain name of DVR. User should logon to the website provided by the DDNS server supplier to register a user name and password, and then apply for a domain name on line for the server. After successfully setting up the account, the user can access the server through Internet Explorer by inputting that domain name.

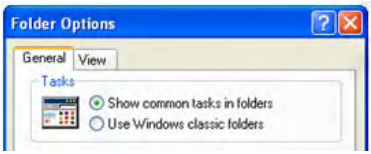
Enable UPnP: User may select UPnP and then enable UPnP function in the user’s router. Then user can access DVR through WAN. When accessing the DVR through IE, user can check the IP address by the following method: Double-click the “My Network Places” icon on the desktop in PC, select “Show icons for networked UPnP devices” in the “Network Tasks” list box, a information window will pop up, click “YES” button, “Windows Components Wizard” dialog box will pop up as shown as below picture, press “Next” to continue. After finished the installation of configuring components, the UPnP icons will display. Users can double-click certain icon and check the IP address of the device.


Windows Components Wizard
Configuring Components
Setup is making the configuration changes you requested.
Please wait while Setup configures the components. This may take several minutes, depending on the components selected.
Status: Completing configuration of Internet Games...
< Back
Next >

If “Show icons for networked UPnP devices” can’t display in the “Network Tasks” list box, please follow the below operation:

- Click “Tools”-- “Folder options”
- Select the “Show common tasks in folders” in the “Tasks” check box to display the UPnP icon.

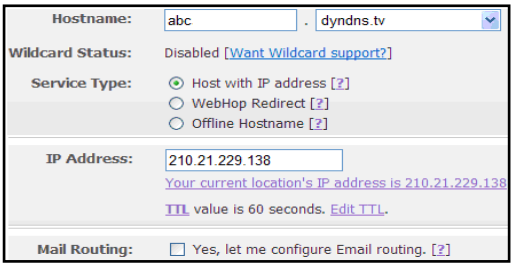




Domain name Registration （Take www.dyndns.com for example）

Note: Users can self-define the hostname, username and password.

Input www.dyndns.com in the IE address bar, user can access the domain name registration interface. Click” Dynamic DNS service ”→”Create Free Hostname” to register. For example: Hostname is “abc.dyndns.tv.
After user fill in the blank, click “Add to cart”, Dynamic DNS Hosts dialog box will be displayed.



Then create user account. For example, the username is “bcd”, password is “123456”. Click” Create Account” button to create user account.

- **DVR Setting**

Domain name

According to the domain name registration of “DDNS”，the domain name for DVR is “www. abc.dyndns.tv”

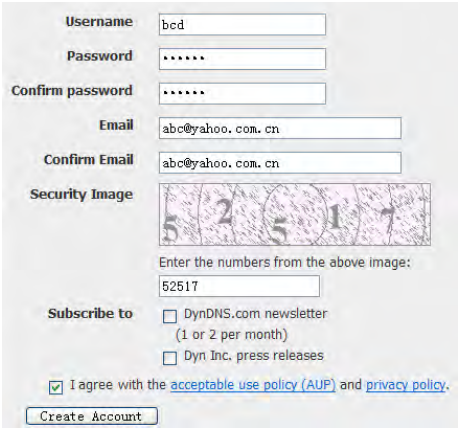
Username and password

According to the above registration, username is “bcd”.
According to the above registration, password is “123456”

Application

Connect DVR to the Network Client.

Step 1: Enter into Basic configuration→Network→other settings, tick off DDNS, and select “Dyndns” at the DDNS Sever pull down list box and input user name and password.



Step 2: Enter into configuration interface of the router to map the server port and IP address (if the user enables UPnP function, he can skip this step). Click Save button to save the setting

Step 3: Login IE browser and input registered domain name “http://www.abc.dyndns.tv”, connect to DVR client.

Note: If the value changed, user needs to add the port number when typing IP address in IE address blank .i.e. set HTTP port to 82, IP address:

http://192.168.0.25, user needs to input that address: http://192.168.0.25:82 into IE browser.

4.7 User Management Configuration

Step 1: Enter into system configuration→user management configuration; refer to Fig 4-34:

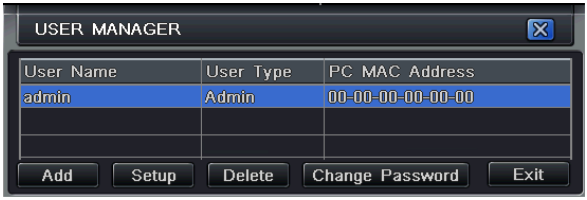


Fig 4-34 User Management Configuration

Step2: Click Add button, a dialog box will pop-up shown as Fig 4-35:

Fig 4-35 Add-General

- **General:** Input user name, password; select user type: normal or advance.

If you only want the user to be able to access the DVR from a specific computer then put a checkmark in the Binding PC MAC Address option and enter the MAC address of the only PC you want the user to be able to access from.

- **Authority:**

Step 1: Enter into Add user→authority; refer to Fig 4-36:

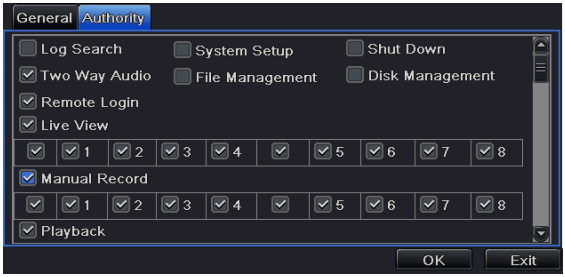


Fig 4-36 Add User-Authority

Step 2: In the authority interface, assign the definite operation right for that user.

Step 3: In the user management interface, click Setup button to modify user name, user type and binding PC MAC address if used.

Step 4: Select the user that you want to delete in the user list box, then click Delete button to delete this user.

Step 5: Click Change password button to modify the password; click Exit button to exit the current interface.

4.8 P.T.Z configuration

P.T.Z configuration includes two submenus: serial port and advance

① Serial Port

Step 1: Enter into system configuration→P.T.Z configuration→serial port; refer to Fig 4-37:

Step 2: Checkmark Enable, setup the value of address, baud rate and protocol according to the settings of the PTZ speed dome.

Step 3: User can setup all channels with same parameters, checkmark “all”, then to do relevant setup.

Step 4: Click “default” button to restore default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

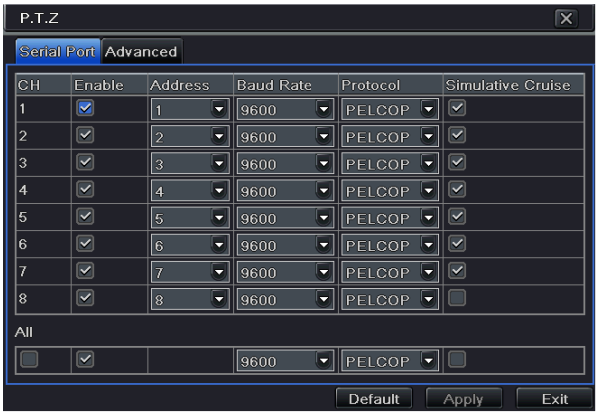


Fig 4-37 P.T.Z Configuration-Serial Port

Parameter	Meaning
Address	The address of the PTZ device
Baud Rate	Baud rate of the PTZ device. Range form: 110, 300, 600, 1200, 2400, 4800, 9600, 19200, 34800, 57600, 115200, 230400, 460800, 21600.
Protocol	Communication protocol of the PTZ device. Supported Protocols are: NULL, PELCOP, PELCOD, LILIN, MINKING, NEON, STAR, VIDO, DSCP, VISCA, SAMSUNG, RM110, HY, N-control.
Simulative Cruise	If enabled, no matter whether the PTZ device supports cruise or not, the presets will cruise.

② Advance

Step 1: Enter into system configuration→ P.T.Z configuration→advance; refer to Fig 4-38:

Fig 4-38 P.T.Z Configuration-Advance

Step 2: In the Advance interface, click preset “Setting” button, a dialog box will pop-up shown as Fig 4-39:

Fig 4-39 Advance-Preset Setting

a. In the preset set interface, click Setting button, a dialog will pop-up shown as Fig 4-40:

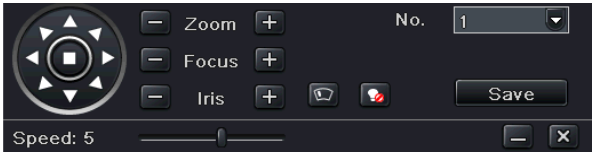


Fig 4-40 Preset Set-Setting

b. User can control the dome rotating up, up left, down, right down, left , left down, right and up right and stop rotating; adjust the rotate speed and the value of zoom, focus and iris of the dome;

c. select the serial number of the preset point. Click button to enable the PTZ wiper and click button to enable the PTZ light.

Note: PTZ must support wiper and light, these two functional buttons can take effect. At the same time these two buttons are just available when selecting PELCOP or PELCOD.

d. Select the serial number of the preset point. Click Save button to save the settings, click icon to hide the tool bar, right-key can display it; click icon to exit the current interface.

e. In the preset interface, click OK button to save the setting; click Exit button to exit current interface.

Step 3: In the Advance interface, click cruise “Setting” button, a dialog box will pop-up shown as Fig 4-41:

Fig 4-41 Cruise Set

a. Click Add button to add cruise line in the list box (max 8 cruise lines can be added); select a cruise line, click Setup button, a dialog box will pop-up shown as Fig 4-42:

Fig 4-42 Cruise Set-Modify Cruise Line

b. Click Add icon to set the speed and time of preset point; select a preset point, click Delete icon to delete that preset point; click Modify icon to modify the setting of a preset point. User can click icons to adjust the position of preset point. Click Preview button to preview the cruise line, click OK button to save the setting, click Exit button to exit current interface.

c. Select a preset point in the cruise line list box, click Delete button to delete that cruise line; click Clear all button to clear all cruise lines from the list box; click OK button to save the setting; click Exit button to exit current interface.

Step4: In the Advance interface, click track “Setting” button to pop up a dialog box as Fig 4-43:

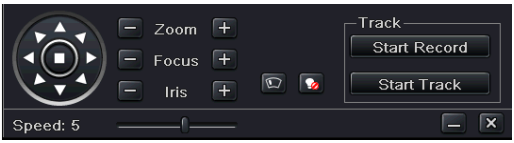


Fig 4-43 Track Setting

a. User can control the dome rotating up, up left, down, right down, left, left down, right and up right and stop rotating; adjust the rotate speed and the value of zoom, focus and iris of the dome; click Start Record button to record the moving track of PTZ, click this button again to stop recording; click Start track button to play recorded track, click this button again to stop play.

b. Click icon to hide the tool bar, right-key can display it;

c. click icon to exit the current interface.

Step 5: In the Advance interface, click “default” button to restore default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

4.9 Reset

Reset all settings the device will reboot.

5. SEARCH, PLAYBACK & BACKUP

Search configuration includes four submenus: time search, event search, image search and file management.

5.1 Time Search

Step 1: Enter into Search configuration→time search; refer to Fig 5-1:

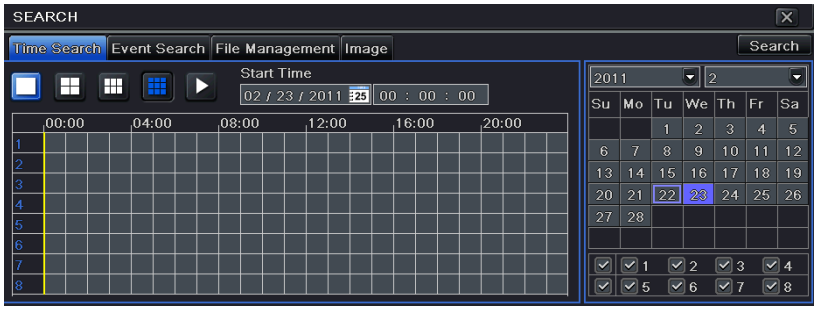


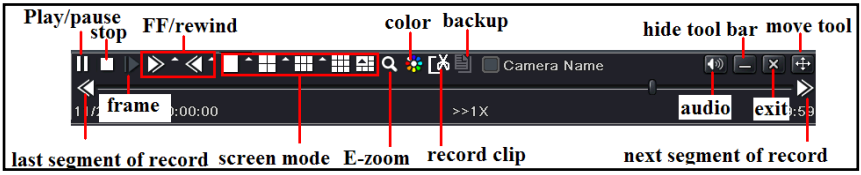
Fig 5-1 Search Configuration Time Search

Step 2: Select channel, screen display mode, the highlighted dates on the calendar means the days have recorded data.

Step 3: Select a date, press Search button, click the time grid to set the play start time or input play time manually. The selected time will match the blue grid.

Note: when the monitor resolution is VGA 800*600, the time search interface will show a hide button, click this button, the whole interface will be expanded.

Step 4: Click Play button to playback record; click the relevant buttons on the screen to do various operations:



Playback Buttons

- **The method of record backup during a certain period in the playback interface:**
  Select the start time by dragging the slider and click icon. Then select the end time and click this icon again to confirm the record period. Next, click icon to backup the record during this period.

5.2 Event Search

Step 1: Enter into Search configuration→event search; refer to Fig 5-2:

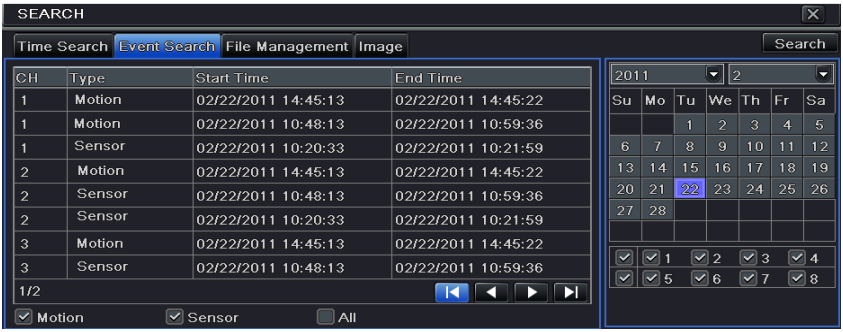


Fig 5-2 Search Configuration-Event Search

Step 2: Click Search button, the searched event information will be displayed in the event list box. Select date, channel, checkmark Motion, Sensor or All accordingly.

Step 3: Double click the record file you would like to playback.

Note: when the monitor resolution is VGA 800*600, the event search interface will display a hide button, click this button, the whole interface will be expanded.

5.3 File Management

Step 1: Enter into Search configuration→file management; refer to Fig 5-3:

Step 2: Click Search button, the searched files will be displayed in the file list box, user can select date, channels accordingly.

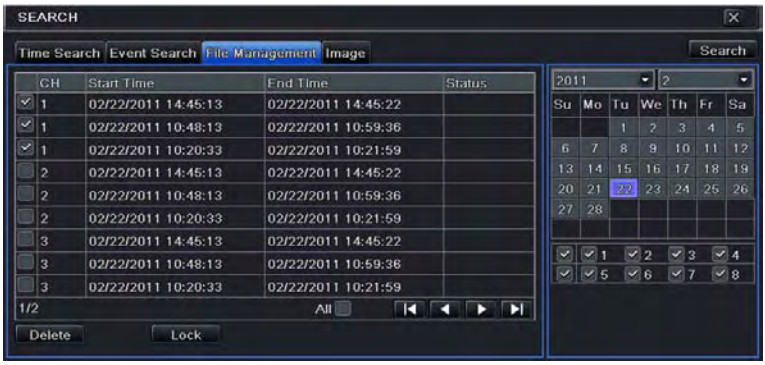


Fig 5-3 Search Configuration-File Management

① Lock: check a file, click Lock button to lock this file, after that, that file will not be deleted or covered (unless you format the hard drive).
② Unlock: check a locked file, click Lock button to unlock this file
③ Delete: check an unlocked file, click Delete button to delete this file.

Step 3: Checkmark "All" button; user can lock/unlock or delete all files in the file management column.

Step 4: Double click an unlocked item to playback.

Note: when the monitor resolution is VGA 800*600, the file management interface will display a hide button. Click this button to expand the interface.

5.4 Image

In this interface, user can set start, end time and channels to search the captured images and save, lock or delete these images. There are at most 2000 images which can be saved in the SATA disk. If there are more images saved in the SATA disks than 2000 images, those additional images will supersede prior images. Double click the image with the left mouse to automatically playback from the time of the image captured.

5.5 Backup

This unit supports backup to USB Flash, USB hard drive and USB DVD burner through the USB port on the front panel. You can also backup via IE browser over the Internet. Refer to 7.6.2 Remote Backup.

Step 1: Enter into backup configuration; refer to Fig 5-4:

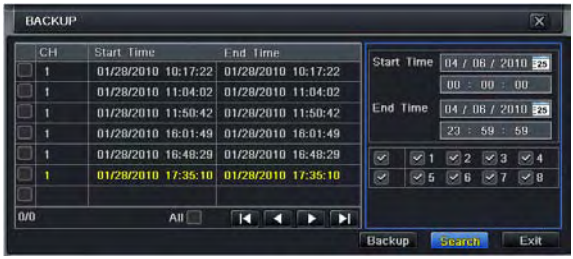


Fig 5-4 Backup Configuration

Step 2: Set the start & end time, select channels, click Search button, the searched data will be displayed in the data backup list box

Step 3: Check a data file or checkmark “All” to select all data files , click Backup button, a dialog box will pop-up shown as Fig 5-5:

Fig 5-5 Backup Information

Step 4: You can check the relevant information of backup files, storage type, save file type, etc. Click the Start button once to start backup. To play back the files plug the USB device to a PC and browse the device, you will see 2 folders, one Video Play, and another containing video files. Open the Video Play folder and run Videoplay.exe, click on open path, and point to folder with video files.

6. DVR MANAGEMENT

6.1 Checking System Information

Check system information includes five submenus: system, event, log, network and online users.

- **System Information**

  In this interface, user can check the hardware version, MCU version, kernel version, device ID, etc.

- **Event Information**

  In this interface, user can check recorded events according to selected date;

- **Log Information**

  In this interface, user can check relevant log information according to selected date; User can export the data files to USB flash drives and USB hard drives using the backup function.

- **Network information**

  In this interface, user can check relevant parameters of network;

- **Online Information**

  In this interface, user can check the details of the current connection of online users;
  Refresh: refresh the current interface.
  Disconnect: the administrator is authorized to disconnect the client terminal, that PC will not be able to access the device within five minutes.

- **Record information**

  In this interface, a user can check resolution, ftp and record status including sensor alarm recording, motion recording, manual recording or schedule recording.

6.2 Manual Alarm

In this interface, user can check the relevant parameters of manual alarm.

6.3 Disk Management

- **Format the disk**

Step1: enter into disk management interface

Note: please format the hard disk before record. If not being formatted, it will show the status of the disk-free space, and total space show OM at the bottom of screen.

Step2: click Refresh button to refresh the disk information of the list box; set the property of the disk and then click Apply button to save the setting
Step3: select a hard disk and click Format button to start format.

Note: all recorded files in the hard disk will be lost after formatted.

- **Advanced**

User may check model, S/N, firmware, health status of the disk in this interface. User also can monitor the temperature, internal circuit, dielectric material of the disk, analysis the potential problems of the disk and warn so as to protect its data.

6.4 Upgrade

At present, it only supports USB update. Get the software from your vendor when there is a new software version, and make sure it is corresponding with the DVR. User can check the USB information in Disk management.
Upgrade method: the user needs to copy the upgrade software which gets from vendor into the USB storage device and then connect to the USB port. Enter Menu→Upgrade, the upgrade software name is displayed in the upgrade list box, select that software and then click upgrade button. It will upgrade automatically. Please wait for a while when the system is rebooted. Never cut off power during upgrading. The original configuration will be reserved after upgrade.

6.5 Logoff

Click Log off icon, a log off dialogue box will popup, click OK button, the device will log off. If user wants to log in again, click icon to enter user name and password to login again.

7. REMOTE SURVEILLANCE

7.1 IE Remote Surveillance

In order to view the DVR from a network it must be connected to a LAN/WAN or internet. The network setup should be done accordingly. Please refer to 4.6 Network Setup. This DVR supports IE browser, on Windows XP and Vista platform.

7.1.1 On LAN

Step 1: Enter into the DVR's Main Menu→Setup→Network interface to input IP address, Subnet Mask, etc .If using DHCP, please enable DHCP in both the DVR and the router.

Step 2: Enter Record Setup to set network video parameters like resolution, frame rate etc.

Step 3: Open IE on a computer on the same network. Input the IP address of the DVR in IE address bar and press enter.

Step 4: IE will download ActiveX component automatically. Enter the username and password in the subsequent window

***Notice**: If HTTP port is not 80, other number instead, need add the port number after IP address. For example, set HTTP port as 82, need input IP address like 192.168.0.25:82.*
User name and password here are the same with that used on the DVR. The default is admin and 123456.

7.1.2 On WAN

There are two ways for the DVR to connect to internet.

1. Connect the DVR to internet through router or virtual server

Step 1: Enter into the DVR's Main Menu→Setup→Network interface to input IP address, Subnet Mask, etc. If using DHCP, please enable DHCP in both the DVR and router.

Step 2: Forward IP address and port number in Virtual Server setup of the router or virtual server. Configure the firewall to allow accessing the DVR. (If the user has enabled the UPnP function in both the DVR and router, he can skip this step.)

Step 3: If users want to utilize dynamic domain name, please apply for a domain name in a DNS server supported by the DVR or router. Then add to the DVR or router.
This unit supports www.dns2p.com，www.meibu.com，www.dyndns.com，and www.no-ip.com.

Step 4: Open IE browser, input IP address, or dynamic domain name and enter. If HTTP port is not 80, add the port number after IP address or domain name.

Step 5: IE will download ActiveX automatically. Then a window pops up and asks for user name and password. Input name and password correctly, and enter to view.

***Note**: If you cannot download and install ActiveX, please refer to Appendix A FAQ Q8.*

2. Connect the DVR to internet directly.

Step 1: Enter into the DVR's Main Menu→Setup→Network interface to enable PPPoE and then input user name and password received from your ISP. Next, click 'Apply'. The DVR will connect to the server and would give a confirmation message.

Step 2: When accessing the remote interface of DVR, user can input WAN IP to access directly (user can enter into Main menu→Information→Network interface to check IP address). The browser will download Active X control.

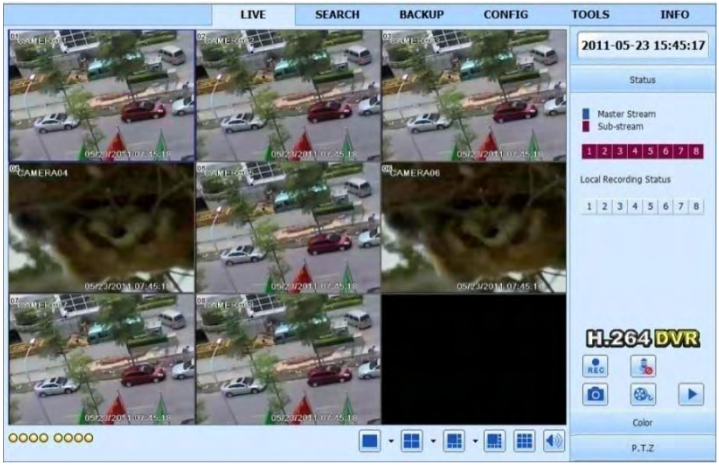


Fig 7-1 View with IE browser

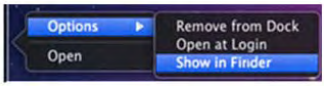
7.2 Remote Surveillance through Apple PC

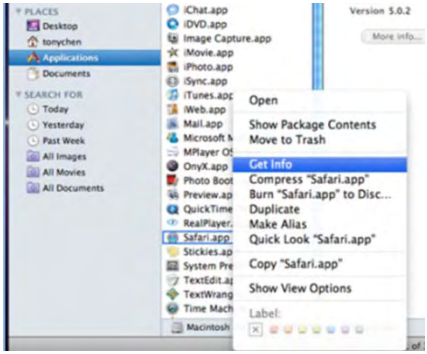
Note: Because the current plug-in version of client end just only supports 32-bit mode, so the safari browser shall start 32-bit mode. If the browser is the earlier MACOS version, the default setting is 32-bit mode and the setting can be skipped.

The Setting steps are as follows:

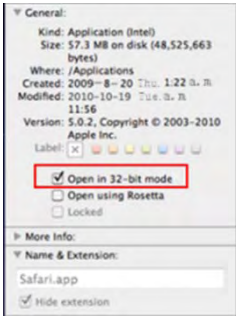
First: Right click safari icon and select “Show in Finder”.

Second: Select Applications→Right click “Safari. App”→Select “Get Info”.





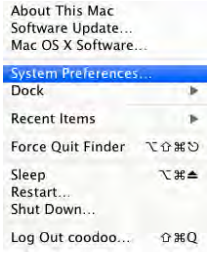
Third: Select “open in 32- bit mode”.



7.2.1 On LAN

Step 1: After starting Apple computer, click “Apple” icon. The following window will

pop up. Please select “System Preferences”→”Internet &Wireless”→click “Network”



Step 2: Enter into Network interface and then click “Ethernet Connected” to check the internet connection of Apple PC.

Step 3: After acquiring the IP address, Subnet Mask and so on, please enter into the DVR’s Main Menu→Setup→Network interface to manually input IP address, Subnet Mask and Gateway according to the configuration of PC. The network segment should be the same as the PC. If using DHCP, please enable DHCP in the DVR and router.

Step 4: After finishing the above information, users can enter LAN IP and http port in the Safari browser. For example: input http://192.168.1.100:81(here 192.168.1.100 is LAN IP of DVR, 81 is the http port of DVR). Click “ ” button, the browser will download Active X control as shown below:

Web Client
http://192.168.1.100:81
Apple
untitled folder
please click icon to load and install WebkitPlugin:
please restart browser to ensure WebkitPlugin can take effect after install!

Step 5: Click icon and then select the Active X control, the welcome interface will be shown. Click "Continue"→"Install" button，the following window will pop up：

Input the name and password of Apple PC and then click "OK" to install this Active X control.

Step 6: After finishing installing the Active X control, please quit from the Safari browser. Right click Safari icon on the desktop and then select "Quit" button to quit the browser. Then restart Safari browser. Input the IP address and http port to enter into the login interface of DVR.

7.2.2 On WAN

There are also two ways for DVR to connect to Internet.

1. Connect the DVR to internet through router or virtual server

Step 1: The network setups are the same as step one to step four of point 1 on WAN of IE remote surveillance.

Step 2: Enter WAN IP and http port in the Safari browser to install the Active control. The concrete steps are the same as step 5 and 6 of Chapter 7.2.1.

2. Connect the DVR to internet directly.

Step 1: The network setups are the same as step one of point 2 on WAN of IE remote surveillance.

Step 2: Enter WAN IP and http port in the Safari browser to install the Active control. The concrete steps are the same as step 5 and 6 of Chapter 7.2.1.

7.3 The remote live preview interface

Once you have setup Internet Explorer you can access the DVR through a browser window. If you are accessing the DVR over the network you would enter the IP address of the DVR into the address bar. If you are accessing the DVR from a remote computer you will enter the public IP address of the router. This is the address you get by going to www.myipaddress from a computer attached to the same router as the DVR. When you connect to the DVR you will be prompted to download a webcam program to access the cameras. When the download is complete you will see a login window to access the DVR. After you put in the password information you will see the following screen:

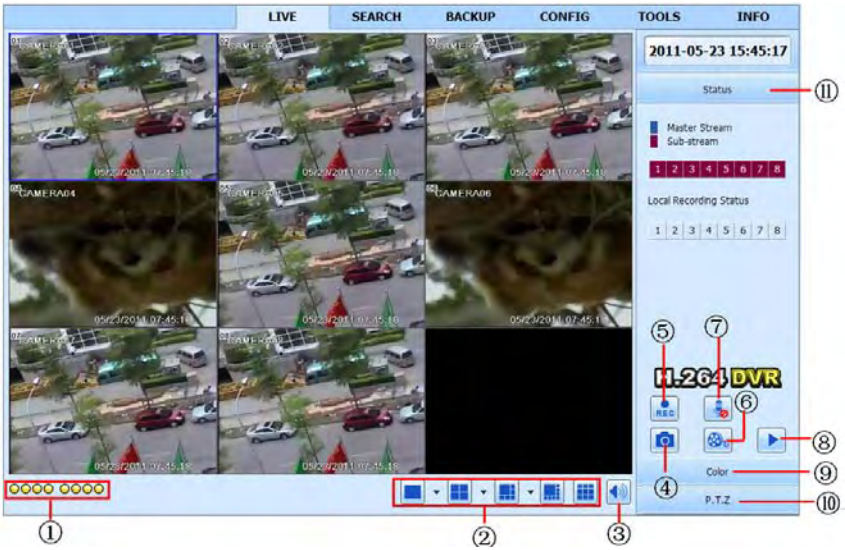


Fig 7-2 Remote Live Preview Interface

Symbol and Function Definitions:

1	Channel indicator	2	Screen display mode	3	Volume
4	Snapping picture	5	Start manual record	6	Start IE record
7	Bidirectional talk	8	Playback	9	Color
10	PTZ control	11	Master/sub stream status		

Note: click

button to record manually and the recorded file will be saved on your PC hard drive.

Screen display mode:

Click the icon beside the screen display mode, channel select dialog will appear as shown below:

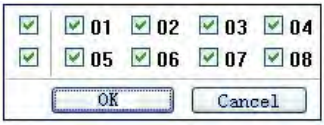


Fig 7-3 Channel Select Dialog

User can checkmark channels form 1-ch to 8-ch at random to display the live pictures. Then click OK button to confirm the setting.

Snap Pictures

Click “Snap” icon, the system will capture pictures and save those pictures in the computer.

User should set up the save path for those pictures in the Remote Preview interface→Configuration→Local configuration.

Color Adjustment:

Drag the slide bar to adjust Brightness, Contrast, Hue, and Saturation. Click Default to reset them to original value.

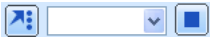
BUTTON	DESCRIPTION
	Drag the scroll bar to adjust the brightness of channel
	Drag the scroll bar to adjust the contrast of channel
	Drag the scroll bar to adjust the saturation of channel
	Drag the scroll bar to adjust the hue of channel
	Click this button to recover the default value of brightness, contrast, saturation and hue.
	Save the adjustment

PTZ Control

Connect the PTZ speed dome to the device via RS485. Ensure the protocol of the speed dome is supported by the device and set the relative parameters manually. User can control the dome up, down, right, left or stop rotating in Control Center, adjust rotation speed, Iris and zoom, focus on the dome, and set the presets, etc.

Buttons definition:

BUTTON	DESCRIPTION
	move the dome up. move the dome up and left. move the dome up and right move dome down. move the dome left and down. move the dome right and down. move the dome to the left. move the dome to the right. store the dome rotating.
	Drag the scroll bar to adjust rotating speed of the dome.
	'Iris' button. Click button near 'Iris' button to increase light of the dome image. Click button near 'Iris' button to decrease light of the dome image.
	'Zoom' button. Click button near 'Zoom' button to zoom in on the picture of this camera. Click button near 'Zoom' button to zoom out on the picture of this camera.

	'Focus' button. Click button near 'Focus' button to focus further away. Click button near 'Focus' button to focus closer.
	Go to the Preset
	Select and do auto cruise
	Track
	Auto scan
	Wiper button
	Light button

Right click the mouse on the live interface to generate a pull-down menu as shown below:

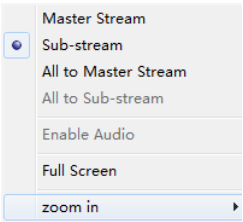


Fig 7-4 Right Key Sub Menu

Stream: this DVR supports master stream and sub stream. Master stream has higher frame rate, max 25FPS (PAL)/ 30FPS (NTSC) for every channel. However, to ensure optimal function, an increased network bandwidth is highly recommended. Sub-Stream bandwidth supports low frame rate: 6FPS (PAL)/7FPS (NTSC) for every channel.

All to master/sub stream: Sets all channels to master stream or sub stream.

Enable Audio: Enable or disable audio

Full Stream: The live preview picture will display full screen, the tool bar will be hidden; double click left mouse or click right mouse to return

Zoom in: Single channel large screen amplification
Left click the channel you need to amplify; Click the right mouse, select Zoom in button and then click the left mouse to amplify the image. Press left mouse to drag the cursor, user can view the image. Double-click the left mouse to exit. Click the right mouse to return to the main interface.

7.4 Remote Playback and Backup

7.4.1 Remote Playback

Click button to enter into record playback interface, refer to Fig 7-5:
Select the record date and channels; double-click the file name in the record file list box, user can play that file and preview the picture.

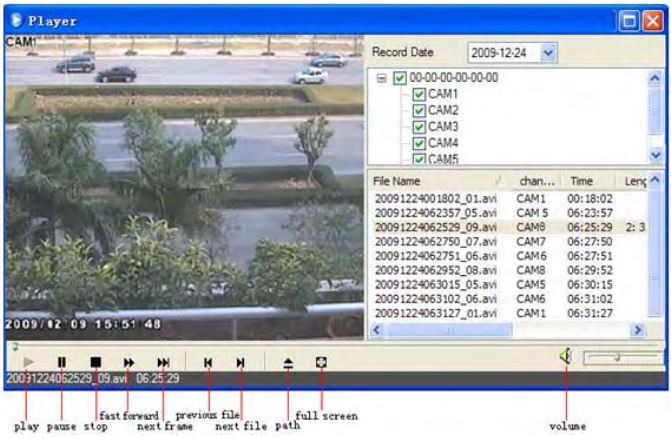


Fig 7-5 Play Record File Interface

This DVR supports remote time search, event search and file management.

By Time Search:

Step 1: Enter into Search→time search; refer to Fig 7-6:

Step 2: Click “Search” button. The record data will be displayed in the data information list box. The highlight date in the area marked ② means there is recorded data for that channel at that time. Select the record channels in the area marked ③.

Step 3: User can set the data playing time and display mode in area ① as required

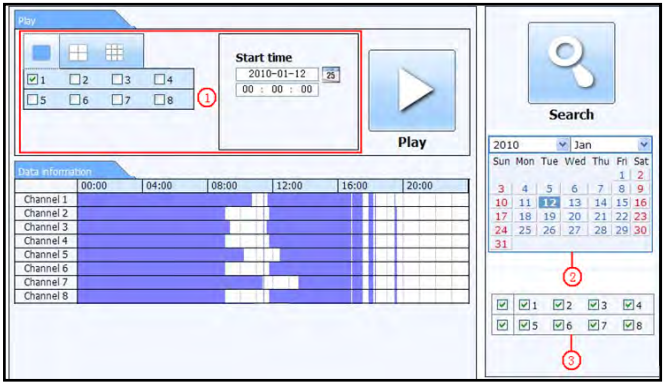


Fig 7-6 Time Search Interface

Step 4: Select an item from the data information list box, click “play” button to playback

Step 5: Click the relevant buttons in the interface; user can do operations such as: FF, pause, change channel mode, research, etc. Refer to Fig 7-7:

Fig 7-7 Time Search Playback

By Event Search:

Step 1: Enter into Search→event search; refer to Fig 7-8:

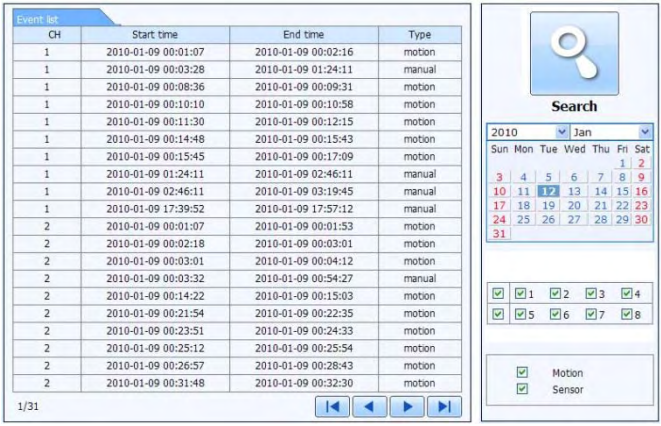


Fig 7-8 Event Search Interface

Step 2: Click the highlight date and select record channels and then checkmark the event type: motion and sensor, click “search” button

Step 3: The events will be display in the event list box, double-click an item to playback

File Management

Step 1: Enter into Search→file management; refer to Fig 7-9:

Lock: select a file in the file list box, click “Lock” button to lock this file so it can’t be deleted or overwritten (unless hard drive is formatted).

Unlock: select a locked file, click “unlock” button to unlock this file

Delete: select an unlock file, click “delete” button to delete this file from file list

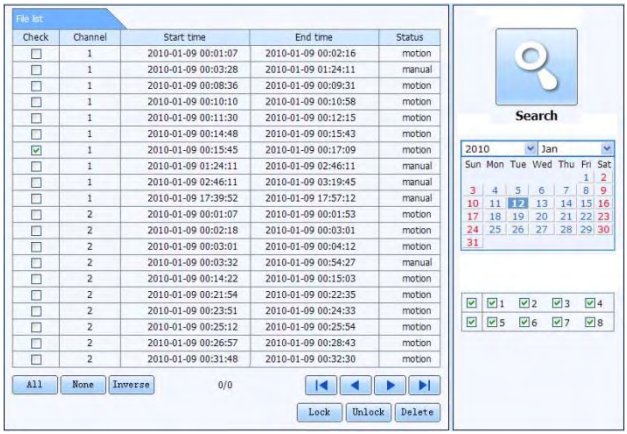


Fig 7-9 File Management Interface

7.4.2 Remote Backup

Click Backup button to enter into backup interface, refer to Fig 7-10:

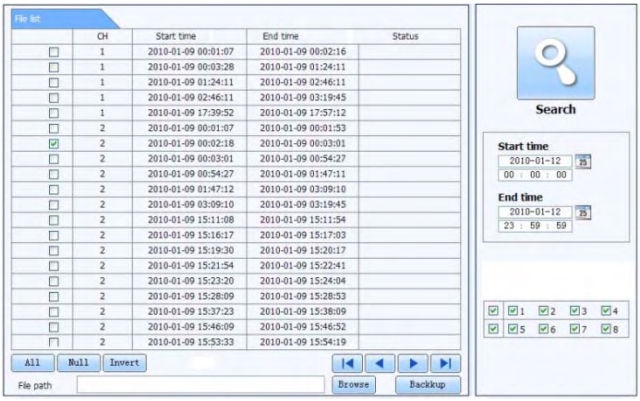


Fig 7-10 Remote Backup Interface

Step 1: Select channels, set the start and end time, then click “search’ button, the file information will be displayed in the file list box

Step 2: Select backup files, click “browse” button to set the save path, and then click “backup” button to start backup. The backup files will be saved on user’s PC.

7.5 Remote System Configuration

User can remotely setup the parameters of the device. Functions of remote configuration include: basic configuration, live configuration, record configuration, schedule configuration, alarm configuration, network configuration, PTZ configuration and user configuration. User should first select an item in the menu list on the left, and then setup the relative parameters. While one user is setting up parameters of a certain item, others cannot set it up.

Click Config to enter into the below interface refer to Fig 7-11:

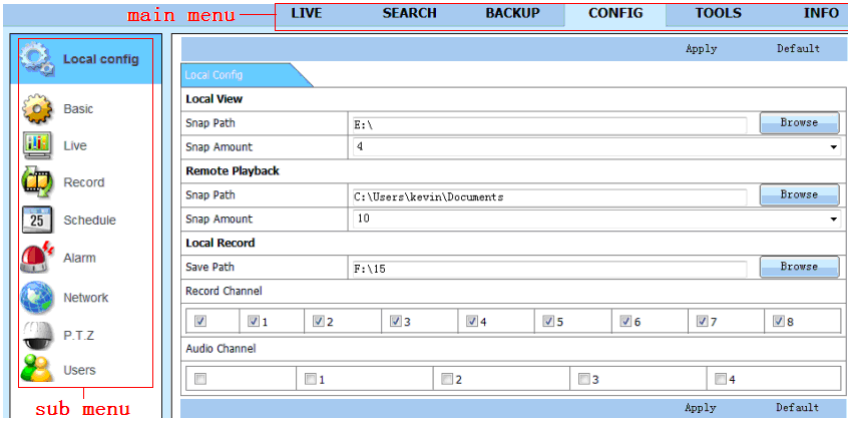


Fig 7-11 Remote Menu Setup

The sub menu lists and the options in every item are similar to those on the DVR. Please refer to Chapter 3 Main Menu Setup Guide for more details.

Click “save” button to save above settings; click “default” button will recover the original settings.

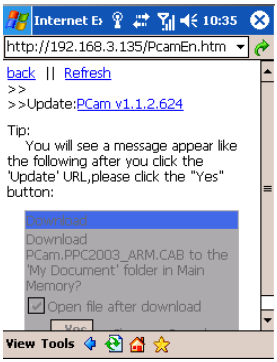
Note: There may be subtle differences with respect to functions of remote surveillance between through IE and through Apple PC. Here we only take IE remote access for example.

8. MOBILE SURVEILLANCE

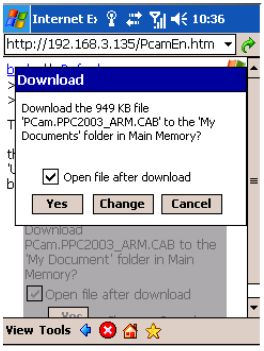
This DVR supports mobile surveillance by Iphone, iPad, Andriod, Blackberry or smart phones with Windows Mobile Pro and symbian OS on 3G networks. We tested on Window Mobile Pro 6.1 and 6.5. To access the DVR from a mobile phone you first need to setup the network configuration on the DVR, refer to Chapter 4.6 Network configuration. Below are instructions for accessing the DVR from phones running Windows Mobile Pro, Symbian, iPhones/iPads, Android, and Blackberry models

8.1 Phones with Windows Mobile

Step 1: First you will need to activate network access on the mobile phone and then run “Internet Explorer”. Input the DVR’s IP address and then setup the connection as shown below:

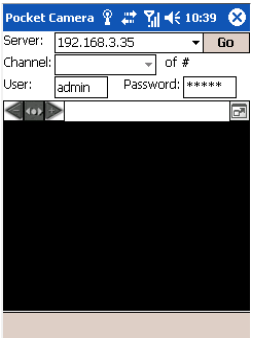


Step 2: Click on the software name. A dialog box pops up:

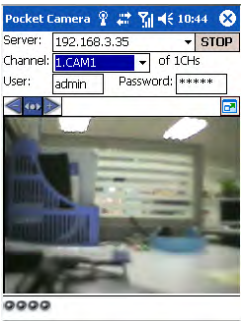


Step 3：Click “Yes” to start downloading and installing:

Step 4：PCam will open automatically once the install process is complete.



Step 5：Input the DVR’s address, ID and password respectively in the columns of “Server”, “User” and “Password”, and click “Go” to log on the DVR. It will show the picture if accessed successfully.



Step 6：Camera 1 is the default channel after login. Change the channel in the drop down menu of “Channel”:

Notice*: User name and password here are the same as that used on the DVR. The default is admin and 123456.*

8.2 Phones with Symbian

Please use the smart phones with Symbian versions supported by this unit.

Step 1：First enable the network access on the mobile phone. Then run Web browser.

Step 2：Input the DVR's IP address in a new-built bookmark. Click this bookmark to connect to the DVR.

Step 3：A welcome window will pop up and requires a package. Click the software name to download

Step 4：A security window will pop up after downloading and ask if you want to install the package. Click YES to install.

Step 5：A Scam shortcut icon appears on the system menu after finished.

Step 6：Run Scam program. It will display a function interface.

Live view: to do mobile live view
Image view: to check the pictures snapped in live view
System setting: Login setting and Alarm setting.
Help: function indication and help

Step 7：Click System setting--->Login Setting to enter login interface.

Step 8：Input the DVR's address, ID and password respectively. Then save.

Notice*: About Access point, there may be different access points in different countries or from service providers.*

Step 9：Enter Live View, it will connect to the server and display pictures.

Notice*: User name and password here are the same with that used on the DVR. The default is admin and 123456.*

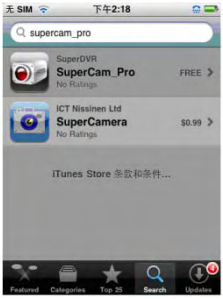
Step 10：In Live View, users can do snapshot, change channels and control PTZ cameras.

8.3 For iPhone / iPad Mobile Clients

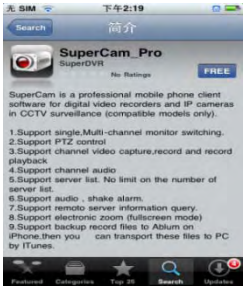
1. Installing through iphone/iPad

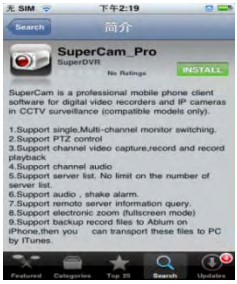
Step 1. Open App Store function of iphone

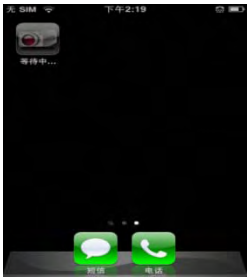
Step 2. Select “search” function to search for “SuperLive”



Step 3: Click SuperLive, enter into “introduce” interface and then click “FREE”, it will change into “INSTALL”


Search
简介
SuperCam_Pro
SuperDVR
FREE
SuperCam is a professional mobile phone client software for digital video recorders and IP cameras in CCTV surveillance (compatible models only).
1.Support single,Multi-channel monitor switching.
2.Support PTZ control
3.Support channel video capture,record and record playback
4.Support channel audio
5.Support server list. No limit on the number of server list.
6.Support audio , shake alarm.
7.Support remoto server information query.
8.Support electronic zoom (fullscreen mode)
9.Support backup record files to Ablum on iPhone,then you can transport these files to PC by iTunes.


Search
简介
SuperCam_Pro
SuperDVR
INSTALL
SuperCam is a professional mobile phone client software for digital video recorders and IP cameras in CCTV surveillance (compatible models only).
1.Support single,Multi-channel monitor switching.
2.Support PTZ control
3.Support channel video capture,record and record playback
4.Support channel audio
5.Support server list. No limit on the number of server list.
6.Support audio , shake alarm.
7.Support remoto server information query.
8.Support electronic zoom (fullscreen mode)
9.Support backup record files to Ablum on iPhone,then you can transport these files to PC by iTunes.



Step 4: Input iTunes Store password and then click “OK”, the software will be installed automatically.

Note: If this is the first time you are accessing the Store you need to enter user ID; if you do not have a Store account, you need to create one.

1. Installing through PC.

Step 1: Access iTunes store in PC and then login

Step 2: Connect iPhone and PC

Step 3: Select “search” function to search for “SuperCam”

Step 4: Click “free application” button

Step 5: Input apple ID and password, then click “acquire”

Step 6: Checkmark “synchronously apply program” and “SuperLive”, and then click “apply” button

Operation Instructions for iphone/iPad

1. Login interface

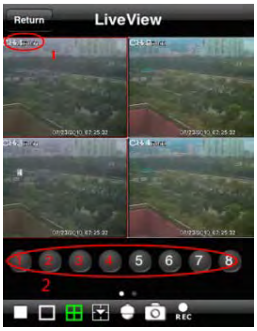
Enter server's IP address (or domain name), user name and password Click "Remember server" to save the setting; clicking ▼ button can quickly input saved server address, user name and password.

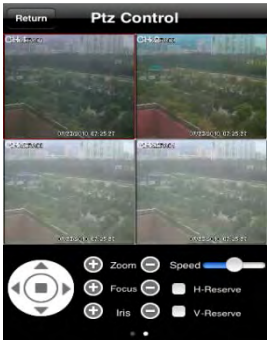
2. Main Interface

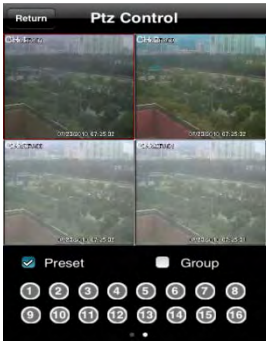
NOTE: If you click on the Help icon you will bring up a help menu with a list of the functions of the different buttons and how to use them.

Playback	playback recorded files	**Image**	image view
Log	log record	**Server List**	device list
Live	live view	**Settings**	software settings
Information	device information view	**Help**	software help center
Logoff	logoff and return to login interface		

3. Live View Interface







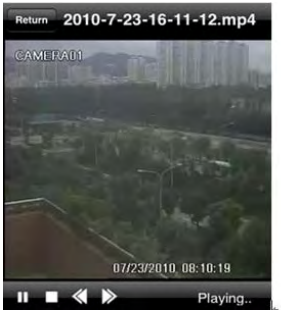
Symbol	Current viewing channel	Symbol	Channel status
	Switch channels		PTZ, click to switch to Fig 2 interface
	Snap picture	REC	Record
	Close the video of the current channel		Live audio

	Switch to the single image		Switch to four images
	Move the PTZ Up		Rotate the PTZ Down
	Move the PTZ to the Left		Move the PTZ to the Right
	Stop rotating the PTZ		Zoom In/Focus In/Iris Add
	Zoom Out/Focus Out/Iris Sub	Preset	Select the preset point
Group	Set the cruise line	Speed	Rotate speed of the PTZ
H-Reserve	Horizontal- Reserve	V-Reserve	Vertical- Reserve

4. Image view interface

The first picture
Previous
Next
The last picture
copy picture to album
Delete picture

5. Record Playback interface

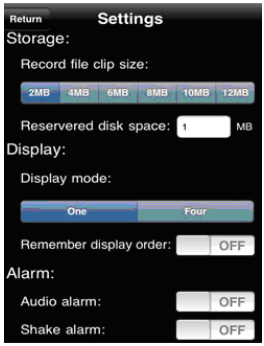


Play/pause
stop
Rewind
Fast forward

Click the record file to playback.

6. Server list Interface

7. Configuration interface



Main parameters for mobile phone video configuration:

Record file clip size: Single video size. When the video size is greater than setup value, change to another video file size setting.

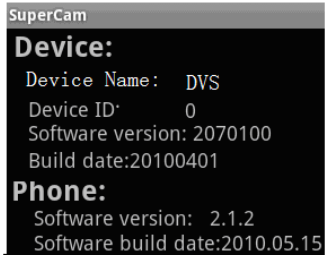
Reserved disk space: Reserved SD Card disk space, when the available disk space is less than setup value, the video will be stopped

Display mode: User can select one live picture display or four live picture displays

Remember display order: User can choose whether to remember display order or not.

Alarm config/Select Audio Alarm. When Video Loss/Sensor/Motion occurs a sound alarm will be triggered.. **Select shake Alarm**. When Video Loss/Sensor/Motion occurs it will trigger vibrate alarm.

8. Information View Interface



Device name: the current device name

Device ID: the current connection device ID

Software version: the current connection device software version

Build date: the current connection device build date

Software version: the software version of mobile phone in use

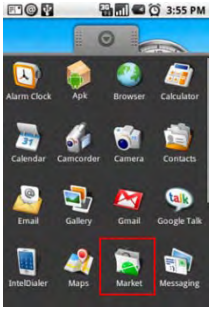
Software build date: the software build date of mobile phone in use

8.4 The installation & operation methods for Android mobile clients

Software Installation

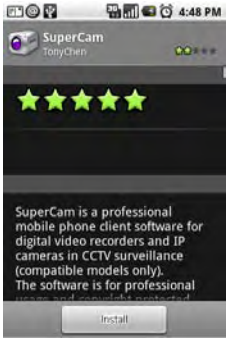
Step 1: run Google Market program

Step 2: search for ”SuperCam”

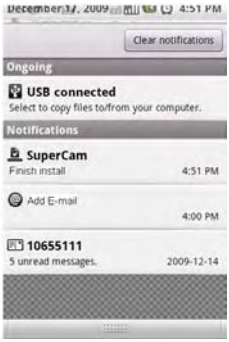


Step 3: press “Install” button

Step 4: click “OK” button


4:48 PM
SuperCam
SuperCam is a professional mobile phone client software for digital video recorders and IP cameras in CCTV surveillance (compatible models only). The software is for professional
Install

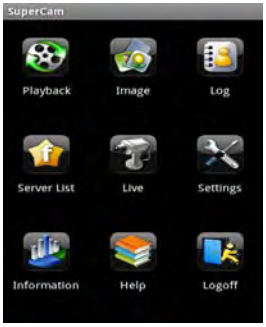
Step 5: user can view the download and install process in notifications; finished download, the software will install automatically.



Login

Enter into server's IP address (or domain name), user's ID and password.
Click "Remember server" to save the setting;
Click ▼ button can quick input saved server address, user name and password.

Main menu



NOTE: If you click on the Help icon you will bring up a help menu with a list of the functions of the different buttons and how to use them.

Playback	playback record file	**Image**	image view
Log	log record	**Server List**	device list
Live	live view	**Settings**	software setting
Information	device information view	**Help**	software help center
Logoff	logoff and return to login interface		

Live view

Fig 1

Fig 2

Symbol	Current viewing channel	Symbol	Channel status
	Switch channels		PTZ, click to switch to Fig 2 interface
	Snap	REC	record
	talk		Live audio
	Full screen		Return
	Move PTZ up		Move PTZ down
	Move PTZ left		Move PTZ right
	Stop rotates the PTZ		Zoom In/Focus In/Iris Add
	Zoom Out/Focus Out/Iris Sub	Preset	Select the preset point
Group	Set the cruise line		

Image view

	Previous
	Next
	Delete
	Zoom out
	Zoom in
	Return to main menu

Record playback

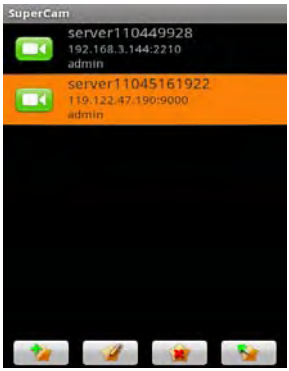
Fig 3

Fig 4

Click the record file (Fig 3) to playback (Fig 4)

	Play/pause		stop
	Full screen		Return to record file interface (Fig 3)

Server list



	Add a server to list
	Modify a server on list
	Delete a server from list
	Return to main menu

Configuration interface

Alarm setting	Select Sound Alarm, when Video Loss/Sensor/Motion occurs it will trigger sound alarm; Select Vibrate Alarm, when Video Loss/Sensor/Motion occurs it will trigger vibrate alarm
Storage setting	User can setup the relevant parameters of mobile video. This function only works with an inserted SD card.
Path	Save path for mobile video files, the default catalog is /SDCard/. Click button to change path.
Reserved disk space	Reserved SDCard disk space, when the disk space is less than setup value, the video will be stopped
Video clip size	Single video size. When the video size is greater than setup value, change to another video file size
Remove all recorder files before	delete all current video files

Information view

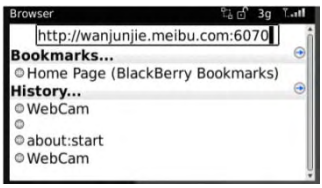
Device ID: the current connection device ID
Software version : The current connection device software version
Build date: the current connection device build date
Software version : The current use of mobile phone software version
Software build date: the current use of mobile phone software version build date

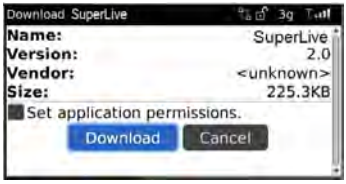
8.5 Installation and operation Methods for BlackBerry Mobile phone Client

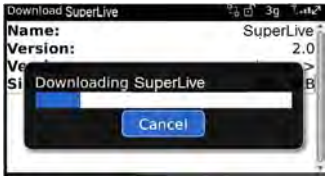
1. Open the browser of BlackBerry phone and enter public IP address of router to access DVR

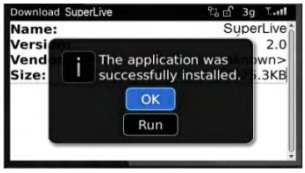
2. Click “SuperCam” to connect to software

3. Click “Download” button on the popup interface and the download progress will be shown.







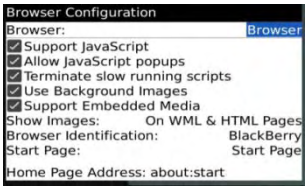


4. Once finished downloading, the software will be installed automatically.

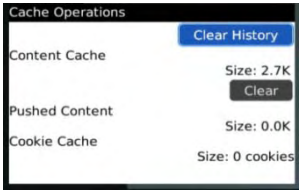
If the software fails to download, please check the following:

1. Verify that the network of mobile phone is working correctly.
2. Verify that you can connect to the DVR from a remote computer.
3. Modify the Browser Configuration.

1) Enter into Menu->Option->Browser Configuration; set to the following figuration:

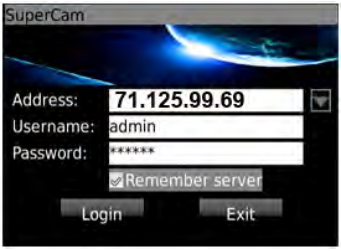


2) Enter into Menu->Option->Cache Operations, clear up browser cache.



If the SuperCam software is used in mobile phone with touch screen, there will be a compatibility problem.
Solution:
Enter into Options Menu -> Advance options -> Applications-> SuperCam and click “Disable Compatibility” button. This problem will be solved.

1. Login



Enter IP address to access DVR (or domain name), user’s ID and password.
Click “Remember server” to save the setting; click ▼ button can quick input saved server address, user name and password.

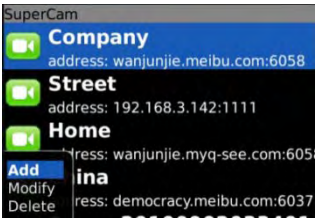
2. Main interface

Image	image view	Log	Record log	Server List	device list
Settings	software settings	Live	live view	Information	device information view
Help	Software help center	Logoff	logoff and return to login interface		

3. Live view

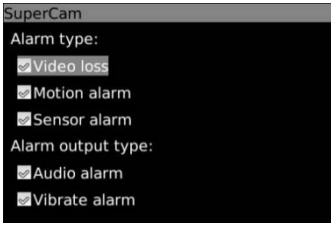
Mark 1	Current viewing channel	Mark 2	Channel status
	Switch channels		PTZ, click to switch to Fig 2 interface
	Snap		Full screen
	Background alarm		Stop rotating the PTZ
	Upward rotates the PTZ		Downward rotates the PTZ
	Leftward rotates the PTZ		Rightward rotates the PTZ
	Zoom In/Focus In/Iris Add		Zoom Out/Focus Out/Iris Sub
Preset	Select the preset point	Group	Set the cruise line

3. Server list



[Add] Add a server (DVR access IP or domain name)
[Modify] Modify a server (DVR access IP or domain name)
[Delete] Delete a server (DVR access IP or domain name)

4. Software configuration



Alarm type: Setup the type of background alarm (Video Loss/Sensor/Motion)
Alarm output type: Setup prompt type of background alarm/sound, alarm/vibrate

5. Information view

Device:
Device Name: name of the current device.
Device ID: the current connection device ID
Software version: The current connection device software version
Build date: the current connection device software build date
Phone:
Software version: The current software version on the mobile phone
Software build date: the date of the current mobile phone software version

9. VDT7008 SPECIFICATIONS

ITEM	DEVICE PARAMETER	SPECIFICATION
Compression	**Compression Format**	Standard H.264 Baseline
Video	**Video In**	COMPOSITE 1.0V p-p/75Ω, BNC x 8
	Video Out	CVBS output
	LCD Resolution	800*480
	Record Resolution	352*288/704*576 (PAL) 352*240/704*480 (NTSC)
	Display Frame Rate	200FPS (PAL)/240FPS(NTSC)
	Record Frame Rate	200FPS (PAL)/240FPS (NTSC)
Audio	**Audio Input**	RCA x 4
	Audio Output	RCA x 1
Alarm	**Alarm Input**	4-ch alarm input
	Alarm Output	1CH
Storage	**Record Mode**	Manual/Sensor/Timer/Motion Detection
	Simplex/Duplex/Triplex	Pentaplex
Interface	**Network Interface**	RJ45 (LAN, Internet)
	Communication Interface	RS485, USB 2.0 x 2 (One for Backup, Another for USB Mouse)
Controls	**PTZ Control**	Yes
	Remote Control	Yes
Disk Info	**Disk Type**	SATA x 1
Other Info	**Voltage**	12V3A
	Working Temperature	14°F to 131°F (-10°C to 55°C)/ 10% to 90%

APPENDIX A: FAQ's

1. The DVR does not start after connecting the power, what is wrong?

a. The power adapter may have been damaged, or is not providing enough power. Please change the adapter.

b. The DVR may not be getting enough power from the outlet or surge protector it is attached to.

c. There could be a problem with the system board on the DVR

2. The indicator lights of the DVR are on, but no output. Why?

a. The power adapter may have been damaged, or is not providing enough power. Please change the adapter

b. The video format of the DVR is different from that of the monitor.

c. Connection problem. Please check the cable and the ports of the monitor and DVR.

3. Why are no images displayed on some or all of the channels of the DVR?

a. Connection problem. Please check the cables and the ports of camera and DVR.

b. Camera problem. Please check the cameras by attaching them directly to TV or working port on DVR.

c. The video format (NTSC/PAL) of the DVR is different from that of the cameras. Please change DVR video format.

4. Cannot find HDD

a. The power adapter is not providing enough power, or the adapter is not getting enough power from the outlet

b. Connection problem. Please check the power and data cables on the HDD.

c. The HDD is damaged. Try a new one.

5. I cannot record, what could be the problem?

a. HDD is not formatted. Please format it manually first.

b. The record function is not enabled or setup correctly. Please refer to 3.3 Recording.

c. HDD is full and recycle function is not enabled. Please refer to 4.3.4 Recycle Recording.

d. The HDD is damaged. Try a new one.

6. I cannot use the mouse, what could be the problem?

a. Wait 5 minutes after mouse connected and then try.

b. Mouse is not securely connected. Plug/unplug several times.

c. The mouse is incompatible with the system. Please try another mouse.

6 What can I do when the DVR starts and displays "please wait……"all the time?

a. First possible reason: hard drive power cable and/or data cable are not securely connected.

Solution: Please check the cable connections and make sure they are secure; if still not working, please unplug them and then plug them in again.

b. Second possible reason: The system is having problems reading the hard drive.

Solution: Try reformatting the current drive or re-placing it.

8. Why isn't the mouse I have plugged into the front USB port working?

The front USB port is only for backup to USB flash drive, and does not support a USB mouse. Please use the USB port on the rear panel if using a mouse.

9. How do I input password and digital numbers?

To input password and digital numbers click the box behind *password* or *items* where you need to input numbers, and then a small keyboard will appear. Please select number or letter to input (the default password is 123456), or you can use the digital keys on the front panel, or the digital keys on the remote control.

10. How do I upgrade the firmware on the DVR?

After you get the new firmware from your supplier, copy it onto a USB flash drive. Then select "*upgrade*" in the menu.

Notice: Do not turn the system power off during the upgrade process! Doing so may damage the chipset and prevent the DVR from starting.

11. I can get a live image on the display but I can't get the menu to display. How can I pull up the menu?

Hold down the ESC key to wait for login dialog box to appear.

12. I hooked up the DVR to a TV through the BNC video out port and I do not see anything on the screen. How do I get the video to display?

By default the DVR is setup to use a VGA monitor, if you want to use a TV instead then push the ESC button on the front panel and hold it until you hear a beep, if you still do not get a display then hold the ESC button down again until you hear a beep, the display should come up.

13. What are the minimum configurations of PC for clients connecting remotely?

PC MODULE	PARAMATERS
CPU	Intel Celeron 2.4G
MOTHERBOARD	Intel 845
HDD	80G
RAM	512M
VGA	NVIDIA GeForce MX440/FX5200 ATIRADEON 7500/X300
OS	Windows 2000(SP4 above) /Windows XP(SP2 above) /VISTA/Win7
DIRECTX	9.0

14. What are the PC configurations for 8-ch real time access with fully open mainstream channel?

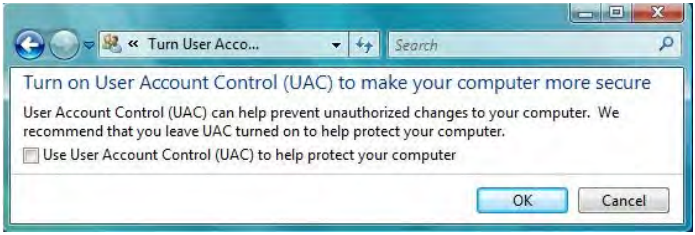
PC MODULE	PARAMATERS
CPU	Intel Core(TM)2 Duo CPU E4600
MOTHERBOARD	G41/P41 chip
HDD	80G
RAM	1GB
VGA	GMA3100/NVIDIA GeForce 8400/ ATI RADEON HD3450
OS	Windows 2000(SP4 above) /Windows XP(SP2 above)/ VISTA/Win7
DIRECTX	9.0

15: On Vista and Win7 I am getting an error message that Codec can't be installed or is missing, how do I solve that?

There are two ways to fix it:

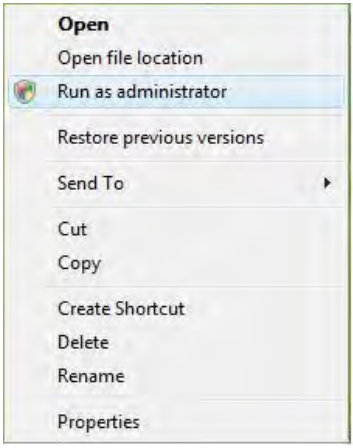
a. Enter Control Panel→User Account and Family Safety → User Account

Control(refer to 15-1); click Turn User Account on or off. Cancel Use User Account Control (UAC) to help protect your computer.


« Turn User Acco...
Search
Turn on User Account Control (UAC) to make your computer more secure
User Account Control (UAC) can help prevent unauthorized changes to your computer. We recommend that you leave UAC turned on to help protect your computer.
Use User Account Control (UAC) to help protect your computer
OK
Cancel

15-1

b. Right click IE browser (refer to Fig 15-2), select Run as administrator to run browser.



15-2

APPENDIX B: CALCULATE RECORDING CAPACITY

Users can calculate the hard drive size needed according to the time saving specification and DVR recording settings listed below. Below is an estimated table outlining hard drive space used when the DVR is configured at various settings.

VIDEO FORMAT	FPS	VIDEO QUALITY	BIT RATE (kbps)	SPACE USED (MB/h)
NTSC	30	Highest	1M	465
		Higher	768k	297
		Medium	512k	230
		Low	384k	173
		Lower	256k	115
		Lowest	128k	56
PAL	25	Highest	1M	466
		Higher	768k	295
		Medium	512k	235
		Low	384k	175
		Lower	256k	112
		Lowest	128k	56.4

The calculation format is:

Total Recording capacity =Used space per hour (MB/h) (coverage rate of hard drive) × recording time (hour) ×channel numbers

For instance, one customer uses NTSC cameras, set resolution to CIF, video quality to Lowest, frame rate to 30 fps for enabling total 16 channels. He wants the unit to record continuously for a month. Below is the calculation:

Total Recoding capacity =56 (mb/h) X 24(hours/day) X30(days) X16(channels)= 645120(MB)≈650(GB)

Therefore, customers who install only one SATA HD with 750GB can expect to achieve almost one month of recording time.

APPENDIX C: COMPATIBLE DRIVES

Compatible USB Drives after Testing

BRAND	CAPACITY
SSK	512MB, 1G, 2GB
NETAC	4GB
KINGSTON	2GB
AIGO	2GB
SMATTER VIDER	1GB
SANDISK	4GB

Compatible HDD after Testing

BRAND	CAPACITY
Seagate Momentus5400.6 5000C5003717D4D2	500G
Seagate Momentus5400.6 5000C5003845EDBF	320G
HITACHI C5K500 HCC545032B9A300	320G